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CLASSIFICATION: 435
PRIOR APPLICATION DATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20
                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO:1:
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Sequence 2, Appli
Sequence 81, Appli
Sequence 81, Appli
Sequence 8157, Appli
Sequence 31342, Appli
Sequence 71342, Appli
Sequence 1019, Appli
Sequence 1758, Appli
Sequence 1758, Appli
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Sequence 1758, Appli
Sequence 19989, Appli
Sequence 19989, Appli
Sequence 2, Appli
Sequence 19889, Appli
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Sequence 19989, Appli
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                                                                         January 3, 2005, 13:43:56 ; Search time 38 Seconds (without alignments) 10.471 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Description
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/cgn2 6/ptodata/1/iaa/5B_COMB.pep:*
/cgn2 6/ptodata/1/iaa/6A_COMB.pep:*
/cgn2 6/ptodata/1/iaa/6B_COMB.pep:*
/cgn2 6/ptodata/1/iaa/PCTUS_COMB.pep:*
/cgn2 6/ptodata/1/iaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
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US-09-107-52A-4196

US-09-107-52A-4196

US-09-543-681A-8157

US-09-543-681A-8157

US-09-147-923-2

US-09-247-155-93

US-09-270-767-47871

US-09-107-532A-6103

US-09-107-532A-6103

US-09-1107-532A-6103

US-09-1107-329-1758

US-09-1107-179-1758

US-09-1107-179-1758

US-09-1107-179-1758

US-09-1107-179-1758

US-09-1107-179-178

US-09-888-885-985-179-17

US-09-888-876-177

US-09-888-876-177

US-09-910-1148-9

US-09-910-1148-9

US-09-910-1148-9

US-09-910-1148-9

US-09-910-1148-9
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Maximum Match 100%
Listing first 45 summaries
                                                   OM protein - protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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                                                                                                                                                                                                                                                                                   Minimum DB seq length: 0
Maximum DB seq length: 2000000000
                                                                                                                               US-09-699-224A-8
28
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           Copyright
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No.
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 12, Appl
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12, Appl
11, Appl
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2, Appl
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APPLICANT: LINNENBACH, ALBAN

TITLE OF INVENTION: GENE FAMILY OF TUMOR-ASSOCIATED ANTIGENS
NUMBER OF SEQUENCES: 5

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/291,583

FILING DATE: 29-DEC-1988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
APPLICANT: Linnenbach, Alban J.
APPLICANT: Linnenbach, Alban J.
APPLICANT: Koprowski, Hilary
APPLICANT: Koprowski, Hilary
APPLICANT: Herlyn, Dorothee
TITLE OF INVENTION: Soluble Variants of Type I Membrane
TITLE OF INVENTION: Proteins, and Methods of Using Them
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSES: ADDRESS:
ADDRESSES: Howson and Howson
STREET: P.O. Box 457 Spring House Corporate Center
CITY: Spring House
STREET: P.O. Box 457 Spring House Corporate Center
CITY: Spring House
STREET: P.O. Box 457 Spring House Corporate Center
CITY: Spring House
STREET: P.O. Box 457 Spring House
COUNTRY: USA
ZIP: 1947
COMPUTER READABLE FORM:
MEDIUM TYPE: FORM:
MEDIUM TYPE: FORM:
MEDIUM SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
PATENCE DATE:
PATENCE DATE:
APPLICATION NUMBER: US/08/413,805
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 27; DB 6; Length 45;
Pred. No. 5.5;
0; Mismatches 1; Indels
US-08-888-949-12
US-08-888-949-12
US-09-262-758-12
US-09-865-912-12
US-09-851-150A-3
US-09-851-150A-3
US-09-351-150A-3
US-09-351-150A-3
US-09-731-393-12
US-08-724-394A-1
US-09-779-12-2
US-09-779-10-2
US-09-779-10-2
US-09-352-168-27
                                                                                                                                                                                                                                                                      ALIGNMENTS
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Best Local Similarity 83.3
Matches 5; Conservative
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DESGLF 25
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    1 DEXGLF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 45
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ORGANISM: Enterococcus faecium
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ORGANISM: Proteus mirabilis
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Matches 5; Conservative
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ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 62 DEAGLF 67
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                                                                                                                                                                                                                                                                                                                                                                                                                               1 DEXGLF 6
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                                                                         FEATURE:
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Retent No. 6583275

GENERAL INFORMATION:
APPLICANT: Lynn. A DOUGETEE-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
BNTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
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CORRESPONDENCE ADDRESS:
ADDRESSES: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
## APPLICATION NUMBER: US 07/778,232
| FILING DATE: 18-OCT-1991
| FRIOR APPLICATION DATA:
| APPLICATION DATA:
| APPLICATION NUMBER: US 08/148,216
| FILING DATE: 05-NOV-1993
| ATTORNEY/AGENT INFORMATION:
| NAME: BAK, MATY E. REFERENCE/DOCKET NUMBER: WST21BUSA
| TELECOMONICATION INFORMATION:
| TELEPHONE: (215) 540-920

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REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
INFORMATION FOR SEQ ID NO: 4196:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: CD/ROM ISO9660
COMPUTER: PC
OPERATING SYSTEM: <unbedocuments
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STATE: Massachusetts
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 83.3
Matches 5; Conservative
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US-09-107-532A-4196
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Sequence 8157, Application US/09543681A
Patent No. 6665709
GENERAL INFORMATION:
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILD.
TITLE OF INVENTION: DATE: 2000-001
CURRENT PILING DATE: 2000-04-05
CURRENT APPLICATION NUMBER: US/09/543,681A
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
LENGER OF SEQ ID NOS: 8344
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Patent No. 6773883

GENERAL INFORMATION

GENERAL INFORMATION

TITLE OF INVENTION: PROGNOSTIC CLASSIFICATION OF ENDOMETRIAL CANCER
FILE REPERENCE: B0801/7225

CURRENT APPLICATION NUMBER: US 60/221,735

PRIOR APPLICATION NUMBER: US 60/221,735

PRIOR PILING DATE: 2000-07-31

PRIOR PLILING DATE: 2000-07-31

PRIOR PLILING DATE: 2000-07-31

PRIOR PLILING APPLICATION NUMBER: US 60/221,735

PRIOR PLILING DATE: 2000-07-31

PRIOR PLILING DATE: 2000-07-31

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96.4%; Score 27; DB 4; Length 297;
Best Local Similarity 83.3%; Pred. No. 46;
Matches 5; Conservative 0; Mismatches 1; Indels
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83.3%; Pred. No. 49;
iive 0; Mismatches 1; Indela
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, NAME/KEY: misc_feature
; LOCATION: (B) LOCATION 1...297
; SEQUENCE DESCRIPTION: SEQ ID NO: 4196:
US-09-107-532A-4196
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Sequence 6103, Application US/09107532A
Sequence 6103, Application US/09107532A
Patent No. 6583275
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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Pred. No. 26;
0; Mismatches 1; Indels
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83.3%; Pred. No. 19;
ive 0; Mismatches 1; Indels
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CORRESPONDENCE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
         APPLICANT: Duclert, Aymeric
APPLICANT: Bougueleret, Lydie
TITLE OF INVENTION: Complementary DNAS
TITLE REPREBNCE: GENSET. 021A
CURRENT APPLICATION NUMBER: US/09/247,155A
CURRENT FILING DATE: 1999-02-09
EARLIER FILING DATE: 1998-02-09
EARLIER FILING DATE: 1998-02-09
EARLIER FILING DATE: 1998-04-13
EARLIER FILING DATE: 1998-04-13
EARLIER FILING DATE: 1998-08-10
EARLIER PEPLICATION NUMBER: 60/096,116
EARLIER PEPLICATION NUMBER: 60/096,116
EARLIER PEPLICATION NUMBER: 60/096,116
EARLIER PELLING DATE: 1998-08-10
EARLIER PELLING DATE: 1998-08-10
SARLIER PELLING DATE: 1998-10-04
NUMBER OF SEQ ID NOS: 182
SOFTWARE: PALENT.PM
Dumas Milne Edwards, Jean-Baptiste
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Drosophila melanogaster
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83.3%;
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Best Local Similarity 83.3
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5; Conservative
                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          97 DEGCLF 102
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Best Local Similarity
Matches 5; Conserv
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; LOCATION: -40..-1
US-09-247-155-93
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US-09-107-532A-6103
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US-09-25-991A-31342

US-09-25-991A-31342

Sequence 31342, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:
APPLICANT:
APPLICANT:
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT FILING DATE: 1999-02-18

PRIOR FILING DATE: 1998-02-18

PRIOR FILING DATE: 1998-02-18

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 31342

LENETH: 597
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Pred. No. 98;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 27; DB 4; Length 597;
Pred. No. 1e+02;
0; Mismatches 1; Indels
                                          Sequence 93, Application US/09247155A Patent No. 6312922 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ) ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-31342
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; ORGANISM: Staphylococcus aureus
US-09-147-923-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        96.4%;
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83.3%;
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Best Local Similarity 83.3
Matches 5; Conservative
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Best Local Similarity
Matches 5; Conserv
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                RESULT 6
US-09-147-923-2
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Sequence 1758, Application US/09710279
Patent No. 6703492
GENERAL INFORMATION:
APPLICAUT: KIMMERLY. WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
FILE REPRENCE: PUJ480US
CURRENT APPLICATION NUMBER: US/09/710,279
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR APPLICATION NUMBER: 60/164,258
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1758
LENGTH: 313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synthetic US-09-710-279-1758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ô
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Pred. No. 88;
0; Mismatches 1; Indels
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Patent No. 5459072
GENERAL INFORMATION:
APPLICANT: MCKSY, Larry
APPLICANT: MCKSY, Larry
TITLE OF INVENTION: FOOD-GRADE INTEGRATION VECTORS FOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: Minneapolis
STATE: MIN COUNTRY: USA
ZIP: S5402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
CURRENT ON WHBER: US/08/220,958
FILING DATE: 25-FEB-1992
ATTORNEY/AGENT INFORMATION:
NAME: KOWADICHY.
NAME: KOWADICHY.
NAME: KOWADICHY.
NAME: KOWADICHY.
TELEPHORICHION INFORMATION:
TELEPHORICHION INFORMATION:
TELEPHORICHIS: 612-332-5001
TELEPHORICHISTON INFORMATION:
TELEPHORICHIS: 612-332-5001
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CORRESPONDENCE S
ADDRESSE: MERCHANT & GOULD
STREET: 3100 No. 5459072west Center
CITY: Minneapolis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 83.3%;
Matches 5; Conservative
                                                8 DEIGLF 13
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               1 DEXGLF 6
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US-09-710-279-1758
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Patent No. 6510836
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: WUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
TITLE OF INVENTION: WUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
TITLE OF INVENTION: PREDMONTAE FOR DIAGNOSTICS AND THERAPEUTICS
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 12019
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                                                                                           COMPUTER READABLE FORM:

COMPUTER READABLE FORM:

COMPUTER: D/SOM ISO9660

COMPUTER: PC
COMPUTER: ASSTEM: «Unknown»

SOFTWARE: ASCII
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/107,532A

FILING DATE: 30-7un-1998

PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: 1197
ATTORNEY/AGENT INFORMATION:
NAME: ATIOISLO, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: 40,489
TELEPHONE: (781)893-5007
TELEPHONE: (781)893-5007
TELEPHONE: (781)893-507
TELEPHONE: (781)893-507
TELEPHONE: (781)893-627
INFORMATION FOR SEQ ID NO: 6103:
SEQUENCE CHARACTERISTICS:
LENGTH: 130 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; NAME/KEY: misc_feature
; LOCATION: (B) LÖCATION 1...130
; SEQUENCE DESCRIPTION: SEQ ID NO: 6103:
US-09-107-532A-6103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
STREET: 100 Beaver Street
                                                STATE: Massachusetts
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-12019
                              CITY: Waltham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             33 beidik 38
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; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-19989
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US-09-134-001C-3229

i Sequence 3229, Application US/09134001C

j Patent No. 6380370

i GENERAL INFORMATION:

i APPLICANT: LAYIN DOUGETE-Stamm et al

i TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS

i TITLE OF INVENTION: BPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS

i TITLE OF INVENTION: NUMBER: US/09/134,001C

i CURRENT APPLICATION NUMBER: US 60/064,964

j PRIOR APPLICATION NUMBER: US 60/064,964

j PRIOR PILING DATE: 1997-08-14

i NUMBER OF SEQ ID NOS: 5674

i LENGTH: 328
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Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS;
TITLE OF INVENTION: ARRUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
TITLE OF INVENTION: ARRUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
TITLE OF INVENTION: ARRUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR PILING DATE: 1998-02-18
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 19989
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Pred. No. 92;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                            1; Indels
                                                                                                                                                                             ORGANISM: Lactococcus lactis subsplactis bv.
ORGANISM: diacetylactis
STRAIN: DRC3
IMMEDIATE SOURCE:
CLOME: Putative Nisin Resistance Gene
US-08-220-958-4
                                                                                                                                                                                                                                                                                                                                                                                          0; Mismatches
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; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-3229
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 318 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 83.3%;
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                               5, Conservative
                                                                                               TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: YES
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  82 DELGLF 87
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Query Match 92.9%; Score 26; DB 4; Length 352;
Best Local Similarity 83.3%; Pred. No. 1e+02;
Matches 5; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                     Search completed: January 3, 2005, 13:53:46 Job time: 39 secs
                                                                                                                           230 DEDGLF 235
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RESULT 2
US-10-325-694-61
; Sequence 61, Application US/10325694
                                        Query Match
Best Local Similarity
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DESGLF
0
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Matches
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Sequence 61, Appl
Sequence 62, Appl
Sequence 10753, A
Sequence 10753, A
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58, Appl
76844, A
1593, Ap
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                                                                                                  January 3, 2005, 13:52:27; Search time 142 Seconds (without alignments) 15.200 Million cell updates/sec
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Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Description
                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.ppp:*
| Cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.ppp:*
| Cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.ppp:*
| Cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.ppp:*
| Cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.ppp:*
| Cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.ppp:*
| Cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.ppp:*
| Cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.ppp:*
| Cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.ppp:*
| Cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.ppp:*
| Cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.ppp:*
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| Cgn2_6/ptodata/2/pubpaa/US106_PUBCOMB.ppp:*
| Cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.ppp:*
| Cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.ppp:*
| Cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.ppp:*
| Cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.ppp:*
| Cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.ppp:*
| Cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.ppp:*
| Cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.ppp:*
| Cgn2_6/ptodat
               version 5.1.6
- 2005 Compugen Ltd.
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US-10-325-694-61
US-10-325-694-61
US-10-325-694-63
US-10-325-694-63
US-10-156-761-10753
US-10-77-701-62789
US-10-106-698-6736
US-10-412-6998-1640
US-10-412-6998-1640
US-10-299-383-2
US-10-282-122A-76844
US-10-282-122A-76844
US-10-374-780A-1593
                                                                                                                                                                                                                                                                                                   Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                     1599051 segs, 359727711 residues
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                                                                                                                                                                                                                                                                                                                                                                                                                                    Applications_AA:*
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Maximum Match 100%
Listing first 45 summaries
                                                                         - protein search, using sw model
                                                                                                                                                                                                                         BLOSUM62
Gapop 10.0 , Gapext 0.5
               GenCore
Copyright (c) 1993
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Maximum DB seq length: 200000000
                                                                                                                                                           US-09-699-224A-8
28
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Match Length
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                                                                                                                                                                                            1 DEXGLF 6
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                                                                                                                                                                                                                           Scoring table:
                                                                                                                                                                Title:
Perfect score:
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                                                                         OM protein
                                                                                                                                                                                               Sequence:
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                                                                                                      Run on:
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Sequence Sequence
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S US-10-412-699B-1639

6 US-10-437-963-162911

US-09-919-497-82

US-10-025-380-1110

4 US-10-026-823-403

4 US-10-205-823-403

4 US-10-205-823-403

4 US-10-216-823-403

4 US-10-236-913-12

4 US-10-236-913-12

4 US-10-408-765A-33

US-10-643-795A-135

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US-09-915-224-62

US-09-915-224-4186

US-09-815-224-263

US-09-815-224-263

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US-09-916-23

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US-09-916-23

US-10-425-115-254470

US-09-91-10-93

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US-10-425-115-254470

US-10-425-115-254470

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## ALIGNMENTS

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US-10-35-694-60

Sequence 60, Application US/10325694

Publication No. US20030148463A1

GENDERAL INFORMATION:

APPLICANT: KUPER, PETER

APPLICANT: RUPER, PETER

TITLE OF INVENTION: NOVEL METHOD FOR THE PRODUCTION OF ANTI-HUMAN ANTIGEN

TITLE OF INVENTION: RECEPTORS AND USES THEREOF

TITLE OF INVENTION: NUMBER: US/10/325,694

CURRENT APPLICATION NUMBER: US/09/403,107

PRIOR APPLICATION NUMBER: US/09/403,107

PRIOR PRILING DATE: 1999-10-14

NUMBER OF SEQ ID NOS: 152

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC US-10-325-694-60
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14; Length 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                96.4%; Score 27; DB 83.3%; Pred. No. 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Artificial Sequence
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Gaps

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Sequence 62789, Application US/10767701
Sequence 62789, Application US/10767701
Sequence 62789, Application William Vision William Vision Wo. US20040172684A1
GENERAL INFORMATION:
APPLICANT: Zhou, Yihua
APPLICANT: Zhou, Yihua
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
TITLE OF INVENTION: UNMBER: US/10/767,701
CURRENT FILING DATE: 2004-01-29
NUMBER OF SEQ ID NOS: 63128
                                                                                                                                                                                                                                                                      OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ô
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                                                                                                                                                                                                                                                                                                                                                          Length 13;
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                                                                                                                                                                                                                                                                                                                                                Score 27; DB 14;
Pred. No. 11;
0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: INELA, HARUO

APPLICANT: ISHIKAWA, UNN
APPLICANT: HORIKAWA, HIROSHI
APPLICANT: SHIBA, TADAYOSHI
APPLICANT: SHRAA, TADAYOSHI
APPLICANT: SAKAKI, YOSHIYUKI
APPLICANT: HATTOSI, MASAHIRA
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-262
CURRENT APPLICATION NUMBER: US/10/156,761
CURRENT FILING DATE: 2002-05-29
PRIOR PELLING DATE: 2001-05-30
PRIOR PILING DATE: 2001-05-30
PRIOR PILING DATE: 2001-06-30
PRIOR PILING DATE: 2001-08-02
NUMBER OF SEQ ID NOS: 15109
SERO ID NO 10753
            CURRENT APPLICATION NUMBER: US/10/325,694
CURRENT FILLING DATE: 2002-12-19
PRIOR APPLICATION NUMBER: US/09/403,107
PRIOR FILLING DATE: 1999-10-14
NUMBER OF SEQ ID NOS: 152
SOFTWARE: PATENTI Ver: 2.1
LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 10753, Application US/10156761
Publication No. US20030119018A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ) ORGANISM: Streptomyces avermitilis US-10-156-761-10753
                                                                                                                                                                                                                            ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 83.3%;
Matches 5; Conservative
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US-10-767-701-62789
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                 GENERAL INFORMATION:
APPLICANT: KUFER, PETER
APPLICANT: RAUM, TOBIAS
TITLE OF INVENTION: NOVEL METHOD FOR THE PRODUCTION OF ANTI-HUMAN ANTIGEN
TITLE OF INVENTION: RECEPTORS AND USES THEREOF
FILE REFERENCE: 38164000
CURRENT APPLICATION NUMBER: US/10/325,694
PRIOR PILING DATE: 2002-12-19
PRIOR PILING DATE: 1999-10-14
NUMBER OF SEQ ID NOS: 152
SOFTWARE: PALENETIN Ver: 2.1
LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: KUFER, PETER
APPLICANT: KUFER, PETER
APPLICANT: RAUM, TOBIAS
TITLE OF INVENTION: NOVEL METHOD FOR THE PRODUCTION OF ANTI-HUMAN ANTIGEN
TITLE OF INVENTION: NOVEL METHOD FOR THEREOF
FILE REFERENCE: 38164000
CURRENT APPLICATION NUMBER: US/10/325,694
PRIOR APPLICATION NUMBER: US/09/403,107
PRIOR PLING DATE: 1999-10-14
SROR ILING DATE: 1999-10-14
SOFTWARE: PATENTING DATE: 1999-10-14
SOFTWARE: PATENTING OF 2.1
SEQ ID NO 62
LENGTH: 13
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Sequence 63, Application US/10325694

Publication No. US20030148463A1

GENERAL INFORMATION:
APPLICANT: KUFER, PETER
APPLICANT: RAUM, TOBLAS

TITLE OF INVENTION: NOVEL METHOD FOR THE PRODUCTION OF ANTI-HUMAN ANTIGEN
TITLE OF INVENTION: RECEPTORS AND USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC US-10-325-694-62
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; Publication No. US20030148463A1
; GENERAL INFORMATION:
Publication No. US20030148463A1
                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence
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Best Local Similarity 83.3
Matches 5; Conservative
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Best Local Similarity 83.5.
5, Conservative
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                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
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APPLICANT: Recoun, pierre B
APPLICANT: Broun, pierre B
APPLICANT: Bilgrim, Marcha L
APPLICANT: Dibell III, Arnold T
APPLICANT: Dibell III, Arnold T
APPLICANT: Dibell III, Arnold T
APPLICANT: Pibeda, Omaira
CURRENT FILING DATE: 2003-02-25
PRIOR PELICATION NUMBER: 09/837,944
PRIOR FILING DATE: 2001-04-18
PRIOR FILING DATE: 2001-08-09
PRIOR FILING DATE: 2001-08-09
PRIOR FILING DATE: 2001-08-09
PRIOR FILING DATE: 2001-11-19
PRIOR FILING DATE: 2001-11-19
PRIOR FILING DATE: 2002-06-14
PRIOR FILING DATE: 2002-06-14
PRIOR FILING DATE: 2002-06-14
PRIOR FILING DATE: 2002-06-09
PRIOR FILING DATE: 2002-06-09
PRIOR FILING DATE: 2002-08-09
PRIOR PR
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Pred. No. 2.4e+02;
0; Mismatches 1; Indels
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APPLICANT: Mendel Biotechnology, Inc.
APPLICANT: Promm, Michael E.; APPLICANT: Heard, Jacqueline E.; APPLICANT: Heard, Jacqueline E.; APPLICANT: Richmann, Jose Luis APPLICANT: Radd, Jacqueline E.; APPLICANT: Rouber, T. Lynne, APPLICANT: Reuber, T. Lynne, APPLICANT: Reuber, T. Lynne, APPLICANT: Keddie, James S.; APPLICANT: Keddie, James S.; APPLICANT: Yu, Guo-Liang
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US-10-374-780A-1594
Jiang, Cai-Zhong
Heard, Jacqueline E
Haake, Volker
                                                                                                         Creelman, Robert A
Ratcliffe, Oliver
Adam, Luc J
Reuber, T. Lynne
Keddie, James
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Samaha, Raymond R.
Pilgrim, Marsha L.
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Best Local Similarity 83.3
Matches 5; Conservative
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ORGANISM: Oryza sativa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26 DEAGLF 31
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Sequence 6736, Application US/10106698

Publication No. US20030109690A1

GENERAL INFORMATION:
TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
TITLE OF INVENTION: COLON TO COLON COLON
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OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
NAME/KEY: MISC_FEATURE
LOCATION: (22)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
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Pred. No. 1.9e+02;
                                                                                                                                                                                                                                                                                                               Length 132;
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                                                                                                                                                                                                                                                                                                                                                                                            1; Indels
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Pred. No. 1.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches
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                                                                                                                                                                                          ; OTHER INFORMATION: Clone ID: 18065567.pep
US-10-767-701-62789
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Sequence 1594, Application US/10374780A

Publication No. US20040019927A1

GENERAL INFORMATION:
APPLICANT: Sherman, Bradley K

APPLICANT: Riechmann, Jose Luis
                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 83.3%;
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 96.4%;
Best Local Similarity 83.3%;
Matches 5; Conservative
                                                                            TYPE: PRT ORGANISM: Sorghum bicolor FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: MISC_FEATURE LOCATION: (3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: MISC FEATURE LOCATION: (189)
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    SEQ ID NO 62789
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LENGTH: 193
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Gaps

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APPLICATION DAIRS

FILING DATE: «Unknown»
APPLICATION NUMBER: US 07/778, 232
FILING DATE: 18-CCT-1991
APPLICATION NUMBER: US 08/148, 216
FILING DATE: 05-NOV-1993
ATTORNEY, AGENT INFORMATION:
REGISTRATION NUMBER: 31, 215
                                                                                                                                                                                                                                                                                                                                 REFERENCE/DOCKET NUMBER: WST21BUSA TELECOMMUNICATION INFORMATION: TELEPHONE: (215) 540-5910 INFORMATION FOR SEQ ID NO: 2: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: linear ;
MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-299-383-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 265 amino acids
TYPE: amino acid
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Best Local Similarity 83.3%;
Matches 5; Conservative
                                             PRIOR APPLICATION DATA:
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Best Local Similarity 83.3
Matches 5, Conservative
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ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100 DESGLF 105
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SOFTWARE: PatentIn version 3.2
SEQ ID NO 1640
LENGTH: 244
                  APPLICANT: Dueell, Arnold N.
APPLICANT: Butcliffe, Oliver
APPLICANT: Ratcliffe, Oliver
APPLICANT: Ratcliffe, Oliver
APPLICANT: Sherman, Bradley K.
TITLE OF INVENTION: Polynuclectidee and Polypeptides in Plants
FILE REFERENCE: MBT-0048CIP
CURRENT APPLICATION NUMBER: US/10/412,699B
CURRENT APPLICATION NUMBER: 09/394,519
RIOR APPLICATION NUMBER: 09/394,519
RIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 2000-01-21
RIOR PILING DATE: 2000-01-21
RIOR PILING DATE: 2000-01-21
PRIOR PILING DATE: 2000-03-22
PRIOR PILING DATE: 2000-03-22
PRIOR PILING DATE: 2000-03-22
PRIOR PLING DATE: 2000-03-22
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ADDRESSEB: Howson and Howson
STREET: P.O. Box 457 Spring House Corporate Center
CITY: Spring House
STATE: Pennsylvania
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 2, Application US/10299383
Sequence 2, Application US/10299383
Publication No. US20030103935A1
GENERAL INFORMATION:
APPLICANT: Linnenbach, Alban J.
Koprowski, Hilary
Harlyn, Dorothee
TITLE OF INVENTION: Soluble Variants of Type I Membrane
Proteins, and Methods of Using Them
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 27; DB 15; Length 244; Pred. No. 2.4e+02;
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MEDIUM TYES: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/299,383
FILING DATE: 19-No. US20030103935A1-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Mismatches
Creelman, Robert A.
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Matches 5, Conservative
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; ORGANISM: Oryza sativa
US-10-412-699B-1640
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US-10-299-383-2
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US-10-404-724-58
Sequence 58, Application US/10404724
Sequence 58, Application US/10404724
Fublication No. US203020347A1
FUBLICANT: HORWING.
TITLE OF INVENTION: Methods and Materials For Increasing Expression of Recombinant
TITLE OF INVENTION: PolyPeptides
FILE REFERENCE: 13698U301
CURRENT FILING DATE: 2003-33-31
FURN APPLICATION NUMBER: US 60/368,530
PRIOR FILING DATE: 2002-03-29
NUMBER OF SEQ ID NOS: 79
SOFTWARE: Patentin version 3.2
SEQ ID NO 58
LIGHTH: 265
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96.4%; Score 27; DB 14; Length 265; 83.3%; Pred. No. 2.6e+02; tive 0; Mismatches 1; Indel8
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Pred. No. 2.6e+02;
0; Mismatches 1; Indels
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US-10-282-122A-76844

Sequence 76844, Application US/10282122A

PUBLICATION NO. US20040029129A1

GENERAL INFORMATION:
APPLICANT: Wang, Liangsu

APPLICANT: Manone, Cheryl

APPLICANT: Malone, Cheryl

APPLICANT: Haselbeck, Robert

APPLICANT: Ohlsen, Kari
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TYPE: PRT
ORGANISM: Oryza sativa
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                                                                                                             APPLICANT: Yanamonco, Robert
APPLICANT: Yanamonco, Robert
APPLICANT: Yanamonco, Robert
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REPERENCE: ELITRA, 034A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/201, 078
PRIOR APPLICATION NUMBER: 60/201, 727
PRIOR APPLICATION NUMBER: 60/201, 727
PRIOR PILING DATE: 2000-05-26
PRIOR PILING DATE: 2000-09-06
PRIOR PILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230, 347
PRIOR PILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/225, 931
PRIOR PILING DATE: 2000-11-27
PRIOR PAPLICATION NUMBER: 60/257, 931
PRIOR PLING DATE: 2000-11-27
PRIOR PAPLICATION NUMBER: 60/257, 931
PRIOR PLING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257, 931
PRIOR PAPLICATION NUMBER: 60/257, 931
PRIOR PAPLICATION NUMBER: 60/269, 308
PRIOR PLING DATE: 2001-02-09
PRIOR PLING DATE: 2001-02-05
PRIOR PLING DATE: 2001-02-16
PRIOR PLING DATE: 2001-03-16
PRIOR PLING DA
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APPLICANT: Reddie, James
APPLICANT: Reddie, James
APPLICANT: Pioun, Pierre E
APPLICANT: Pilgrim, Marsha L
APPLICANT: Dubell III, Arnold T
APPLICANT: Pineda, Omaira
APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES IN PLANTS
FILE REPREMERE: MBL-0047 CIP
CURRENT APPLICATION NUMBER: US/10/374, 780A
CURRENT FILING DATE: 2003-02-25
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Publication No. US20040019927A1
GENERAL INFORMATION:
APPLICANT: Sherman, Bradley K
APPLICANT: Riechmann, Jose Luis
APPLICANT: Taing, Cai-Zhong
APPLICANT: Heard, Jacqueline E
APPLICANT: Heard, Volker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; ORGANISM: Ureaplasma urealyticum
US-10-282-122A-76844
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Ratcliffe, Oliver
Adam, Luc J
                                                                  Carr, Grant
Yamamoto, Robert
Forsyth, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5; Conservative
Daniel
k, John
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   Wall, Dan
Trawick,
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Best Local Similarity
Matches 5; Conserv
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US-10-374-780A-1593
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APPLICANT:
APPLICANT:
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Gaps
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APPLICANT: Kumimoto, Roderick
APPLICANT: Sherman, Bradley K.
ATTLE OF INVENTION: Polynucleotides and Polypeptides in Plants
FIZE REFERENCE: MBI-0048CIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 310;
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83.3%; Pred. No. 3.1e+02;
iive 0; Mismatches 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; OTHER INFORMATION: Orthologous to G1417
US-10-374-780A-1593
PRIOR PILING DATE: 2001-04-18
PRIOR PILING DATE: 2001-04-18
PRIOR PILING DATE: 2001-08-29
PRIOR PILING DATE: 2001-08-29
PRIOR PILING DATE: 2001-08-22
PRIOR PELING DATE: 2001-11-19
PRIOR PELING DATE: 2001-11-19
PRIOR PELING DATE: 2001-11-19
PRIOR PELING DATE: 2001-11-19
PRIOR PELING DATE: 2001-12-11
PRIOR PELING DATE: 2002-08-14
PRIOR PILING DATE: 2002-08-14
PRIOR PILING DATE: 2002-08-19
PRIOR PILING DATE: 2002-08-09
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PRIOR APPLICATION NUMBER: 09/394,519
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: 09/489,376
PRIOR FILING DATE: 2000-01-21
PRIOR APPLICATION NUMBER: 09/506,720
PRIOR FILING DATE: 2000-02-17
PRIOR APPLICATION NUMBER: 09/539,030
PRIOR FILING DATE: 2000-03-22
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Fromm, Michael E.
Heard, Jacqueline E.
Riechmann, Jose Luis
Adam, Luc J.
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Pineda, Omaira
Reuber, T. Lynne
Kedile, James S.
Yu, Guo-Liang
Jiang, Cai-Zhong
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Creelman, Robert P
DuBell, Arnold N.
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Best Local Similarity 83.3
Matches 5; Conservative
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Sequence 162211, Application US/10437963
| Publication No. US20040123343A1
| Publication No. US20040123343A1
| Publication No. US20040123343A1
| APPLICANT: La Rosa, Thomas J. APPLICANT: La Rosa, Thomas J. APPLICANT: Cao, Yongwei APPLICANT: Cao, Yongwei APPLICANT: Boukharov, Andrey A. APPLICANT: Boukharov, Andrey A. APPLICANT: Boukharov, Andrey A. APPLICANT: Bukharov, Andrey A. APPLICANT: Li, Ping APPLICANT: Li, Ping TILE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With TILLE OF INVENTION: Plants and Uses Thereof for Plant Improvement CURRENT APPLICATION NUMBER: US/10/437,963
| VURBENT FILING DATE: 2003-05-14 | NUMBER OF SEQ ID NOS: 204966 | SEQ ID NO 162911 | LENGTH: 210
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PRIOR APPLICATION NUMBER: 09/533,392
PRIOR APPLICATION NUMBER: 09/533,392
PRIOR APPLICATION NUMBER: 09/533,029
PRIOR PILING DATE: 2000-03-22
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PRIOR PILING DATE: 2000-03-22
PRIOR PILING DATE: 2000-03-22
PRIOR PELING DATE: 2000-03-22
PRIOR PELING DATE: 2000-13-29
PRIOR PELING DATE: 2000-13-29
PRIOR PLING DATE: 2000-13-27
PRIOR PILING DATE: 2000-11-16
PRIOR APPLICATION NUMBER: 09/819,142
PRIOR PILING DATE: 2001-03-27
PRIOR PELING DATE: 2010-13-37
PRIOR PILING DATE: 2010-13-37
PRIOR PILING DATE: 2010-3-27
PRIOR PILING DATE: 2011
SOFTWARE: PALENCHIN VERSION 3.2
ENGINANCE: PALENCHIN VERSION 3.2
PRIOR PILING DATE: 2001-03-27
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US-10-437-963-162911
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Best Local Similarity 83.3
Matches 5; Conservative
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; ORGANISM: Oryza sativa
US-10-412-699B-1639
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US-10-437-963-162911
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Search completed: January 3, 2005, 14:04:37 Job time : 143 secs

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Q6bdl uncultured
Aar37689 uncultured
Q988b4 rhizoblum l
Q72sh0 leptospira
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Bac99825 oryza sat
Q9adi0 streptomyce
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GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
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06H121
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094 D31
TTD1 HUMAN
06FG26
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1: uniprot_sprot:*
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WEDLINE=98037514; PubMed=9371463;

RA MEDLINE=98037514; PubMed=9371463;

RA Aldredge T., Banhirzadeh R., Balakely D., Cook R., Gilbert K.,

RA Adradge T., Banhirzadeh R., Lumm W., Pothier B., Qiu D.,

RA Barison D., Hoang L., Keagle P., Lumm W., Pothier B., Qiu D.,

RA Godach R., Vicare R., Vicare R., Warg Y., Warezbowski J., Gibson R.,

RA Daniels C., Bush D., Safer H., Patwell D., Prabhakar S.,

RA Daniels C.J., Mao J.-I., Rice P., Noelling J., Reeve J.N.;

RT "Complete genome sequence of Methanobaccerium thermoautotrophicum

RT GeltaH: functional analysis and comparative genomices.";

LO Bacteriol. 179-7135-7155(1997).

BRIS; F69026; F69026.
Brettin T.S., Bruce D., Challacombe J.F., Gilna P., Han C., Hill K., Hitchcock P., Jackson P., Keim P., Longmire J., Lucas S., Okinaka R., Richardson P., Rubin E., Tice H.;
Richardson P., Rubin E., Tice H.;
Submitted (JAN-2004) to the EMBL/GenBank/DDBJ databases.
EMBL, ABO17225, AAT54830.1;
InterPro; IPR003824; BacA.
Ffam; PF02673; BacA; 1.
SEQUENCE 135 AA, 15525 MW; C52A5B51D68A48C2 CRC64;
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Methanobacterium thermoautotrophicum.
Archaea; Euryarchaeota; Methanobacteria; Methanobacteriales;
Methanobacteriaceas; Methanothermobacter.
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Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales;
Vibrionaceae; Vibrio.
                                                                                                                                                                                                                                                                                                                                                                                        96.4%; Score 27; DB 2; Length 135; 83.3%; Pred. No. 1.2e+02; ive 0; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-JNN-1998 (TrEMBLrel. 05, Created)
01-JAN-1998 (TrEMBLrel. 05, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Created)
Last sequence update)
Last annotation update)
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Pred. No. 1.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          146 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               159 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 96.4%;
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01-MAR-2001 (TYEMBLEEL 16,
01-MAR-2001 (TYEMBLEEL 16,
01-OCT-2003 (TYEMBLEEL 25,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRELIMINARY;
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    37 DEAGLF 42
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=187420;
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SEOUENCE 146 AA
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                                                                                                                                                                                                                                                                                                                                                                                        Query Match
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Q9FAS4
ID Q9FASA
AC Q9FA AC Q9FA OI -M
DT 01-M
DT 01-
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                 SARBERRES
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STRAIN=A3(2) / M145;
MEDDINE=A1996410; PubMed=12000953; DOI=10.1038/417141a;
MEDDINE=A1996410; PubMed=12000953; DOI=10.1038/417141a;
MEDDINE=A1996410; PubMed=12000953; DOI=10.1038/417141a;
MINCHARY S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L.,
Thomson N.R., James K.D., Harris D.E., Quail M.A., Kieser H.,
Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M.,
Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,
Huang C.-H., Kieser T., Larke L., Murphy L.D., Oliver K., O'Neil S.,
Rabbinowitsch E., Rajandram M.A., Rutherford K.M., Rutter S.,
Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K.,
Marren T., Wietzorrek A., Woodward J.R., Barrell B.G., Parkhill J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Soliveri J.A., Gomez J., Bishai W.R., Chater K.F., "Multiple paralogous genes related to the Streptomyces coelicolor developmental regulatory gene whiB are present in Streptomyces and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Complete genome sequence of the model actinomycete Streptomyces coelicolor A3(2).";

Nature 417:141-47(2002).

BMBL; AJ239088; CAB43033.1; -.

EMBL; AJ239088; CAB43033.1; -.

EMBL; AL939122; CAC05891.1; -.

EMBL; AL939122; CAC05891.1; -.

EMBL; Pregulation factor activity; IEA.

GO; GO:0006355; P:regulation of transcription, DNA-dependent; IEA.

InterPro; IPR003482; Whib.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .
0
                                                                                                                                                                                                                                                                                       Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        96.4%; Score 27; DB 2; Length 125; 83.3%; Pred. No. 1.1e+02; ive 0; Mismatches 1; Indels
                          01-NOV-1999 (TrEMBLrel. 12, Created)
01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
01-OCT-2004 (TrEMBLrel. 28, Last annotation update)
Hypothetical protein wbl! (Hypothetical protein SCOS046).
Name=wbl!; OrderedLocusNames=SCOS046; ORFNames=SCK7.19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Soliveri J.;
Submitted (MAY-1999) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bacillus anthracis.
Bacteria, Firmicutes, Bacillales, Bacillaceae, Bacillus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Complete proteome, Hypothetical protein.
SEQUENCE 125 AA; 13917 MW; A3B341D3E12D12EA CRC64;
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05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Bacitracin resistance protein, N-terminal.
OrderedLocusNames=BAS2519;
                                                                                                                                                                                                                                                                                                                               Streptomycineae; Streptomycetaceae; Streptomyces
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=20170666; PubMed=10708372;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     other actinomycetes.";
Microbiology 146:333-343(2000).
                                                                                                                                                                                                                                            Streptomyces coelicolor.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=1902;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN=A;
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[1] SEQUENCE FROM N.A. STRAIN=Sterne;

NCBI\_TaxID=1392;

Q6HY09, Q6HY09,

RESULT 3
06HY09
1D 06HY
AC 06HY
DT 05-U
DT 05-

Best Loca Matches

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Length 146; 1; Indels

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
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P62463;
                                               Q8YGC1
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RESULT 7
Q8YGC1
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STRAIN=1330 / Biovar 1;
MEDLINE=22247741; PubMed=12271122; DOI=10.1073/pnas.192319099;
MEDLINE=222247741; PubMed=12271122; DOI=10.1073/pnas.192319099;
Maulsen I.T., Seehadri R., Nelson K.E., Eisen J.A., Heidelberg J.F., Rad T.D., Dodson R.J., Umayam L.A., Brinkso L.M., Beanan M.J., Daugherty S.C., Deboy R.T., Durkin A.S., Kolonay J.F., Madupu R., Nelson W.C., Ayodeji B., Kraul M., Shetty J., Malek J.A., Van Aken S.E., Riedmuller S., Tettelln H., Gill S.R., White O., Salzberg S.L., Hoover D.L., Lindler L.E., Halling S.M., Boyle S.M., The Brucella suis genome reveals fundamental similarities between
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                     Park K.S., Iida T., Yamaichi Y., Oyagi T., Yamamoto K., Honda T.; Genetic characterization of DNA region containing the trh and ure genes of Vibrio parahemolyticus."; 
Infect. Immun. 68:5742-5748(2000).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
Brucellaceae; Brucella.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 27; DB 2; Length 159; Pred. No. 1.4e+02; 0; Mismatches 1; Indels
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                                                                                                                                                                                                                                Park K., lida I.;
Submitted (FEB-2000) to the EMBL/GenBank/DDBJ databases.
EMBL; AB038238; BAB13789.1; -.
HSSP; P18317; IGMW.
                                                                                                                                                                                                                                                                                                                             GO; GC:0016151, Frinckel ion binding; IEA.
GO; GO:0016461; P:protein complex assembly; IEA.
GO; GO:0019627; P:urea metabolism; IEA.
InterPro; IPR00764; UreE.
InterPro; IPR004029; UreE.
Ffam; PF05194; UreE.
Ffam; PF02194; UreE.
SEQUENCE 159 AA; 17592 MW; 362146808B5440F7 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Complete proteome; Hypothetical protein.
SEQUENCE 231 AA; 25232 MW; B210D1EBA1752831 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             animal and plant pathogens and symbionts.";
Proc. Natl. Acad. Sci. U.S.A. 99:13148-13153(2002).
EMBL; AE014377; AAN29643.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Last sequence update)
Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          231 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Created)
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                                               MEDLINE=20448934; PubMed=10992480;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        96.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-MAR-2003 (TrEMBLrel. 23,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (TrEMBLrel. 23, (TrEMBLrel. 23,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OrderedLocusNames=BR0714;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity 83.3
nes 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRELIMINARY;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hypothetical protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                102 DETGLF 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    45 DEAGLF 50
                                                                                                                                                                                        SEQUENCE FROM N.A.
  SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TIGR; BR0714; -.
                                                                                                                                                                                                                 STRAIN=TH3996;
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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
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--- SIMILAR LOCATION: Integral membrane protein (Probable).
--- SINGLLANEOUS: Bacitracin is thought to be involved in inhibition of peptidoglycan synthesis by sequestering undecaprenyl diphosphate reducing the pool of lipid carrier available.
--- SIMILARITY: Belongs to the upk family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Degrace Anoles, M. M. M. Pole 10.1093/nar/gkh258;

Rasko D.A., Ravel J., Oekstad O.A., Helgason B., Cer R.Z., Jiang L., Shores K.A., Foute D.E., Tourasse N.J., Angiuoli S.V., Kolonay J.F., Nelston W.C., Kolstoe A.-B., Fraser C.M., Read T.D.; Reveals metabolic adaptations and a large plasmid related to Bacillus anthracis pXOl."; Nucleic Acids Res. 32:977-988[2004].

-I. FUNCTION: Probably phosphorylates undecaprenol to undecaprenyl phosphare. Confers resistence to bacitracin (By similarity).

-I. CATALYTIC ACTIVITY: ATP + undecaprenol = ADP + undecaprenyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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05-JUL-2004 (Rel. 44, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
105-JUL-2004 (Rel. 44, Last sequence annotation update)
105-JUL-2004 (Rel. 44, Last sequence update)
105-JUL-2004 (Rel.
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0
                                                                                                                                                                                                                                                                                                   Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       96.4%; Score 27; DB 2; Length 231; 83.3%; Pred. No. 2.1e+02; ive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bacillus cereus (strain ATCC 10987).
Bacteria, Firmicutes; Bacillales; Bacillaceae; Bacillus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        231 AA; 25232 MW; B210C0AFADF135F1 CRC64;
                       01-MAR-2002 (TrEMBLrel. 20, Created)
01-JUN-2002 (TrEMBLrel. 20, Last sequence update)
10-JUN-2003 (TrEMBLrel. 24, Last annotation update)
INSERTION SEQUENCE IS21 PUTATIVE ATP-BINDING PROTEIN.
OrderedLocusNames=BMEI1238;
231 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     259 AA.
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PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                  Brucellaceae, Brucella.
NCBL TaxID=29459;
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Tue Jan

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EMBL; AE017006; AAP09665.1; -
                                         259 AA;
                                                                                                            Bacillus anthracis.
                                                        37 DEAGLF 42
                                                    1 DEXGLF 6
               BCE2732;
                     Transmembrane
                       TRANSMEM
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HAMAP; MF_01006; -; 1.
InterPro; TPR003824; BacA.
Pfam; PF02673; BacA; 1.
Antibiotic resistance; Complete proteome; Kinase; Transferase;
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TRANSMEM
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Q6HI21
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the European Bioinformatics Institute. There are no restrictions on its mee by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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--- SUBCELLULAR LOCATION: Integral membrane protein (Probable).
--- MISCELLANBOUS: Bacitracin is thought to be involved in inhibition of peptidoglycan synthesis by sequestering undecaprenyl diphosphate reducing the pool of lipid carrier available.
--- SIMILARITY: Belongs to the upk family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-JUL-2004 (Rel. 44, Last Sequence update)
01-OCT-2004 (Rel. 45, Last annotation update)
Putative undecaprenol kinase 3 (EC 2.7.1.66) (Bacitracin resistance
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nature 423:87-91(2003).
-1- FUNCTION: Probably phosphorylates undecaprenol to undecaprenyl phosphate. Confers resistance to bacitracin (By similarity).
-1- CATALYTIC ACTIVITY: ATP + undecaprenol = ADP + undecaprenyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                         HAMAP; MF_01006; -; 1.
Antibiotic resistance; Complete proteome; Kinase; Transferase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               96.4%; Score 27; DB 1; Length 259; 83.3%; Pred. No. 2.3e+02; ive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Potential.
Potential.
Potential.
Potential.
Potential.
Potential.
Potential.
N; 545969E859BB8A16 CRC64;
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Name-upk3; Synonyms-bacA3; OrderedLocusNames=BC2711;
Bacillus cereus (strain ATC 14579 / DSM 31).
Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.
NCBI_TaxID=226900;
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Potential.
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ID UPK3_BACCR STANDARD; E

AC 091cPl,

DT 05-JUL-2004 (Rel. 44, Last seq)

DT 05-JUL-2004 (Rel. 45, Last seq)

DT 01-OCT-2004 (Rel. 45, Last seq)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           29209 MW;
                                                                                                                                                                                                                                 EMBL; AE017272; AAS41644.1;
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EMBL, AS017355, AAT60038.1; -...

Interpro; IPR003824, BacA.

Kinase; Transferase.
                                                                                                                                                                                                      Gape
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05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Probable undecaprenol kinase (Bacitracin resistance protein) (EC
                                                                                                                                                                                                      ö
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                                                                                                                                                               Score 27; DB 1; Length 259;
Pred. No. 2.3e+02;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bacillus thuringiensis serovar konkukian str. 97-27.
Bacillus trimicutes; Bacillales; Bacillascese; Bacillus;
Bacillus thuringiensis serovar konkukian.
NCBI_TaxID=281309;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bacillus cereus (strain ATCC 10987).
Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.
                                                                                                          Potential.
24435DOAFF4C8D3C CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           259 AA; 29058 MW; 36101D761CD9EA8E CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 27; DB 2; I
Pred. No. 2.3e+02;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                              259 AA.
     Potential.
Potential.
Potential.
Potential.
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                                                                                                                                                                                                                                                                                                                                                              PRT;
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Name=bacA; ORFNames=BT9727_2479;
29 PO
58 PO
92 PO
120 PO
231 PO
255 PO
2918 PO
                                                                                                                                                               96.4%;
83.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             96.4%;
                                                                                                                                                                                                  5; Conservative
                                                                                                                                                                                                                                                                                                                                                              PRELIMINARY;
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                                       70
102
172
209
238
259 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                             Query Match
Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                      DEAGLF 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                1 DEXGLF 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    37 DEAGLF 42
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                                                                                           TRANSMEM
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SEQUENCE
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AC AASA
DT AASA
DT 02-M
DT 02-M
DT 04-M
DE UNGE
GN BGE2
OC BGC1
OX BACT
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Y818 PYRAE
                                                                    SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                           Q8ZYE1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q9ZU57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 14
Q9ZU57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             urealyticum.";
Nature 407:757-762(2000).
-!- FUNCTION: This enzyme may play a significant role in processes leading to recovery from mutagenesis and/or cell death by alkylating agents (By similarity).
-!- CATALYTIC ACTIVITY: Hydrolysis of DNA containing ring-opened N(7)-methylguanine residues, releasing 2,6-diamino-4-hydroxy-5-(N-methyl) formamidopyrimide.
                 Rasko D.A., Ravel J., Oekstad O.A., Helgason E., Cer R.Z., Jiang L., Shores K.A., Fouts D.E., Tourasse N.J., Angiuoli S.V., Kolonay J.F., Nelson W.C., Kolstoe A.-B., Fraser C.M., Read T.D., The genome sequence of Bacillus cereus ATCC 10987 reveals metabolic adaptations and a large plasmid related to Bacillus anthracis pxol."; Nucleic Acids Res. 32:977-988(2004).

Fighs, BCE2732; AAS41644.1; -.
                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Glass J.I., Lefkowitz E.J., Glass J.S., Heiner C.R., Chen E.Y., Cassell G.H.,
                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              glycosylase).
Name-muth; Synonyms=fpg; OrderedLocusNames=UV413;
Ureaplasma parvum (Ureaplasma urealyticum biotype 1).
Bacteria; Firmicutes; Mollicutes; Mycoplasmataceae; Ureaplasma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Formamidopyrimidine-DNA glycosylase (EC 3.2.2.23) (Fapy-DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COPACTOR: Binds I zinc ion per subunit (By similarity). SIMILARITY: Belongs to the FPG family.
                                                                                                                                                                                                                                                                                    Similarity 83.3%; Pred. No. 2.3e+02; 59; 5; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "The complete sequence of the mucosal pathogen Ureaplasma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN=Serovar 3;
MEDLINE=20500219; PubMed=11048724; DOI=10.1038/35037619;
                                                                                                                                                                                                                                           259 AA; 29209 MW; 545969E859BBBA16 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             275 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HAMAP, MF 00103; -; 1.
InterPro; IPR000214; Fapy_DNAg_Zn_BS.
InterPro; IPR000191; Fapy_DNA_G1yco.
InterPro; IPR010979; Ribosomal_HTTH.
InterPro; IPR010663; ZF-FPG_I]eRS.
Pfam; PF01149; Fapy_DNA_G1yco; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pfam; PF06831; H2TH; 1.—5-1
Pfam; PF06827; zf-FPG IleRS; 1.
ProDom; PD003680; Fapy_DNA_glyco; 1.
TIGRFAMB; TIGR06577; fpg; 1.
PROSITE; PS01242; FPG; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL; AE002138; AAF30824.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STANDARD;
                                                                                                                                                                                                                  Kinase; Transferase.
                                                                                                                                                                                                                                                                                                             Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                    37 DEAGLF 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=134821;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                      1 DEXGLF 6
  PubMed=14960714;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PPG UREPA
Q9PQ76;
                                                                                                                                                                                                                                           SEQUENCE
                                                                                                                                                                                                                                                                                         Query Match
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PRESULT 12
PREGUREA
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DE POTTAGE
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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce) or send an email to license@isb-sib.ch).
                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Genome sequence of the hyperthermophilic crenarchaeon Pyrobaculum aerophilum.",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.

STRAIN=IMP / ATC 51768 / DSM 7523;

PubMed=11792865; DOI=10.1073/pnas.241636498;

Fitz-Gibbon S.T., Ladner H., Kim U.-J., Stetter K.O., Simon M.I.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
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Complete proteome; DNA repair; Glycosidase; Hydrolase; Zinc; Zinc-finger. 273 Potential.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      96.4%; Score 27; DB 1; Length 281; 83.3%; Pred. No. 2.5e+02; ive 0; Mismatches 1; Indels
                                                                                                                                        96.4%; Score 27; DB 1; Length 275; 83.3%; Pred. No. 2.5e+02; ive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pyrobaculum aerophilum.
Archaea; Crenarchaeota; Thermoprotei; Thermoproteales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Complete proteome; Hypothetical protein.
SEQUENCE 281 AA; 31033 MW; 85795161BF3E0EAD CRC64;
                                                             273 Potential.
31993 MW; 9F4624E870E5AF6A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q9ZU57;
01-MAY-1999 (TrEMBLrel. 10, Created)
01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
01-MAY-2004 (TrEMBLrel. 26, Last annotation update)
Putative CENP-B/ARS binding protein-like protein.
Name-At2g06660;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Proc. Natl. Acad. Sci. U.S.A. 99:984-989(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-FEE-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Hypothetical UPF0103 protein PAE0818.
OrderedLocusNames=PAE0818;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          283 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HAMAP; MF 00055; -; 1.
InterPro; IPR002737; DUF52.
InterPro; IPR011057; M844 like.
Pfam; PP01875; UPP0103; 1.
ProDom; PD006364; DUF52; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; AE009787; AAL63052.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Thermoproteaceae; Pyrobaculum, NCBI TaxID=13773;
                                                                                                                                              Query Match
Best Local Similarity 83.3
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         STANDARD;
                                                             250 2
275 AA;
                                                                                                                                                                                                                                                                                                              231 DÉTGLF 236
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
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Arabidopsis thaliana (Mouse-ear cress).
Bukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta;
Spermatophyta, Magnoliophyta, eudicotyledons; core eudicots; rosids,
eurosids II; Brassicales; Brassicaceae, Arabidopsis.
NCBL_TaxID=3702;
                                                                                                                                                                                                                                                              Lin X., Kaul S., Shea T.P., Fujii C.Y., Shen M., VanAken S.E.,
Lin X., Kaul S., Shea T.P., Fujii C.Y., Shen M., VanAken S.E.,
Barnatead M.E., Mason T.M., Bowman C.L., Ronning C.M., Berito M.-I.,
Carrera A.J., Venter J.C.,
Fraser C.M., Venter J.C.,
Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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Rwaryota, Viridiplantes, Streptophyta, Embryophyta, Tracheophyta,
Spermatophyta, Magnoliophyta, Liliopsida, Poales, Poaceae,
Ehrhartoidese, Oryzeae, Oryza.
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01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-OCT-2004 (TrEMBLrel. 28, Last annotation update)
P0712E02.25 protein (WRKY transcription factor 27) (P0700A11.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PubMed=15047897;
Zhang Z.L., Xie Z., Zou X., Casaretto J., Ho T.H., Shen Q.J.;
"A rice WRKY gene encodes a transcriptional repressor of the
gibberellin signaling pathway in aleurone cells.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        96.4%; Score 27; DB 2; Length 283; 83.3%; Pred. No. 2.6e+02; tive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "The genome sequence and structure of rice chromosome 1.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.

Town C.D., Kaul S.;
Stubmitted (FEB-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; ACO06-188479;
B84479; B84479;
GO; GO: 0005534; C:nucleus; IEA.
GO; GO: 0003676; F:nucleus; IEA.
InterPro; IPR004875; CENP-B.
InterPro; IPR009057; Homeodomain_like.
PÉTAN:

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   283 AA; 33068 MW; 8401D57F17BA63C4 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               protein).
Name=P0712E02.25; Synonymg=P0700A11.6, WRKY27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            310 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity 83.3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nature 420:312-316(2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DETGLF 86
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Q94D31,
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094031
10 094031
AC 09403
AC 09403
DDT 01-DE
DE DOTO 10-DE
DOTO 10-DE
DE DOTO 10-DE
DE DOTO 10-DE
DOTO
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RL Plant Physiol. 134:1500-1513(2004).

RN [3]

RP SEQUENCE FROM N.A.

RA Zhang Z.-L., Xie Z., Zou X., Casaretto J., Ho T.-h.D., Shen Q.J.;

RL Submitted (JAN-2004) to the EMBL/GenBank/DDBJ databases.

DR EMBL; AP003499; BAB61861.1; -.

DR EMBL; AP00330; DAA05092.1; -.

DR EMBL; AP00330; DAA05092.1; -.

DR Gramene; Q94D31; -.

DR GJ GO:0003677; F:DNA binding; IEA.

DR Pfam; PF03106; WRKY. 1.

DR PROSITE; PS03106; WRKY. 1.

DR PROSITE; PS03106; WRKY; 1.

SQ SEQUENCE 310 AA; 32557 MW; C06F9776CFB64161 CRC64;

Query Match

Best Local Similarity 83.3%; Pred. No. 2.8e+02;

Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps

Qy 1 DEXGLF 6

DD 26 DEAGLF 31

Search completed: January 3, 2005, 13:52:20

Job time: 193 secs
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GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                 Copyright
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- protein search, using sw model OM protein January 3, 2005, 13:43:11; Search time 38 Seconds (without alignments) 15.192 Million cell updates/sec Run on:

US-09-699-224A-8 28

1 DEXGLF 6 Title: Perfect score: Sequence: BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 seqs, 96216763 residues Searched:

283416 Total number of hits satisfying chosen parameters:

seq length: 0 seq length: 200000000 Minimum DB Maximum DB

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database

pir 79:\*
1: pir1:\*
2: pir2:\*
3: pir3:\*
1: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

SUMMARIES	Description		conserved		B82895 formamidopyrimidin	6	epithelial g	jerky gene	AG3139 Flavin-containing		hypothetical		AH2853 conserved hypothet	C89786 hypothetical pro	parvalbumin b		hypothetical				T47721 hypothetical prote	G97216 S-adenosy			transcription		G81145 hypothetical prote	A46489 pan-epithelial gly	6 nisin resistand	here leveler at the second	piiage-rerace
	q		F6902	AH3	B82	B8447	B48	JCS	AG3	JEO	E98	E97	AH2	C83	PVFG	A69	G71	F64	S04	F83	T47	G97	F83	AD3	139	A64	G81	A46	A43	46695	
	DB	; •	N	~	~	~	7	N	7	7	7	~	~			~	• •	•	•	• •	•	~				N		-		c	2
	Length		146	231	275	283	314	442	469	520	605	694	694	753	108	111	143	143	191	174	204	205	212	235	273	295	313	314	318	322	
4	Query Match		96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	95.9	92.9	92.9	92.9	95.9	92.9	92.9	92.9	92.9	92.9	95.9	92.9	92.9	92.9	92.9	90	
	Score		27	27	27	27	27	27	27	27	27	27	27	27	26	56	56	26	56	26	26	56	26	56	56	26	26	26	26	26	2
	Result No.		-	~	٣	4	2	φ	7	80	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	

Answer

Insertion sequence IS21 probable ATP-binding protein BMEII238 [imported] - Brucella melit

C;Species: Brucella melitensis
C;Date: 01-Reb-2002 #sequence\_revision 01-Feb-2002 #text\_change 09-Jul-2004

C;Accession: AH3406
R;DelVecchio, V.G.; Kapatral, V.; Redkar, R.J.; Patra, G.; Mujer, C.; Los, T.; Ivanova, P.; Mazur, M.; Goltsman, E.; Selkov, E.; Blzer, P.H.; Hagius, S.; O'Callaghan, D.; Letessc Proc. Natl. Acad. Sci. U.S.A. 99, 443-448, 2002

A;Title: The genome sequence of the facultative intracellular pathogen Brucella melitensi
A;Reference number: AD3252; PMID:1175668
A;Accession: AH3406
A;Accession: AH3406
A;Accession: AH3406
A;Accession: AH3406
A;Accession: AH3406
A;Accession: Brucella melitensi
A;Residues: 1-231 <KUR>
A;Cross-references: UNIPROT:Q8YGC1; GB:AE008917; PIDN:AAL52419.1; PID:g17983222; GSPDB:GP
C;Genetics: Brain 16M

A;Gene: BMEI1238 A;Map position: I

probable replicati glycine cleavage s	queuine tRNA-ribos E2 protein – human enterohemolysin 1	hypothetical prote methicillin resist hexokinase (RC 2.7	butyrophilin precu butyrophilin - bov	hypothetical prote hypothetical prote	hypothetical prote probable DNA-direc probable invasin [
C84489 A87665	B69722 S15624 T03003	T44324 JC5326	870587 870587 837821 801381	T18970 T19879	S17908 S62751 H90670
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## ALIGNMENTS

RESULT 1
roysta conserved hypothetical protein MTH1197 - Methanobacterium thermoautotrophicum (strain Del C:Species: Methanobacterium thermoautotrophicum
 C;Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 09-Jul-2004 C:Accession: F69026
 R;Smith, D.R.; Doucette-Stamm, L.A.; Deloughery, C.; Lee, H.; Dubois, J.; Aldredge, T.; F.; Ohn, D.; Spadafora, R.; Vicaire, R.; Wang, Y.; Wierzbowski, J.; Gibson, R.; Jiwani, N.;
 ki, S.; Church, G.M.; Daniels, C.J.; Mao, J.; Rice, P.; Noelling, J.; Reeve, J.N. J. Bacteriol. 179, 7135-7155, 1997
A,Title: Complete genome sequence of Methanobacterium thermoautotrophicum Delta H: functi A,Reference number: A69000; MUID:98037514; PMID:9371463
A;Accession: F69026
 A;Status: preliminary; nucleic acid sequence not shown; translation not shown A;Molecule type: Day A;Molecule type
A; Krastauces 1 1 1 1 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
A, Experimental source: strain Delta H
A;Gene: MTH1197 A;Start: codon: TTG
 DB 2; Length 146;
BEBE LOCAL SINITATILY 63.3%; FICH. NO. 3%; MATCHES 5; CONSERVATIVE 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 DEXGLF 6
Db 117 DETGLF 122

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A; Molecule type: DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                         A.Accession: B82895
A.Status: preliminary
A.Molecule type: DNA
A.Molecule type: DNA
A.Residues: 1-275 <GLA>
A.CLA>
A.Cross-references: GB.AE002138; GB.AF222894; NID:g6899390; PIDN:AAF30824.1; GSPDB:GN001
C.Genetimental Bource: serovar 3; biovar 1
A.Genetic fpg; UU413
A.Genetic code: SGC3
C.Superfamily: formamidopyrimidine-DNA glycosidase
                                                                                                                                                                                                                                                 Commandopyrimidine-DNA glycosylase UU413 [imported] - Ureaplasma urealyticum C; Species: Ureaplasma urealyticum C; Accession: B82895 R; Glass, J.I.; Lefkowitz, E.J.; Glass, J.S.; Heiner, C.R.; Chen, E.Y.; Cassell, G.H. Bubmitted to Genbank, February 2000 A; Description: The complete sequence of Ureaplasma urealyticum: Alternate views of a min A; Reference number: A82870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 4
B84479
hypothetical protein At2g06660 [imported] - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 09-Jul-2004
C;Accession: B84479
C;Accession: B84479
R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L. euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J. A.Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A;Reference number: A84420; MUID:20083487; PMID:10617197
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B48149
epithelial glycoprotein antigen GA733-2 precursor - human
N;Alternate names: adenocarcinoma-associated glycoprotein gp40; carcinoma-associated ant
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    Length 231;
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  DB 2;
53;
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Pred. No. 65;
0; Mismatches
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Pred. No. 63;
0; Mismatches
                                                0; Mismatches
  Score 27;
Pred. No. 9
    96.4%;
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Similarity 83.3%;
5; Conservative
                                                Conservative
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Query Match
Best Local Similarity
Matches 5; Conserv
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A,Map position: 2
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A; Modecule type: mRNA

A; Residues: 1-314 <SZA>

A; Residuental source: colorectal carcinoma cell line SW948

R; Simon, B.; Podolsky, D.K.; Moldenhauer, G.; Isselbacher, K.J.; Gattoni-Celli, S.; Branc

Proc. Natl. Acad. Sci. U.S.A. 87, 2755-2759, 1990

A; Title: Epithelial glycoprotein is a member of a family of epithelial cell surface antic

A; Reference number: A35995; MUID:90207276; PMID:2108441
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A; Residues: 1.144, M', 116-314 <SIM>A; Residues: 1.144, M', 116-314 <SIM>A; Residues: 1.144, M', 116-314 <SIM>A; Crosar-references: GB:M32306; NID:g181132; PIDN:AAA35723.1; PID:g181133
A; Crosar-references: GB:M32306; NID:g181132; PIDN:AAA35723.1; PID:g181133
A; Experimental source: colon carchinoma cell line HT-29
B; Strnad, J.; Hamilton, A.E.; Beavers, L.S.; Gamboa, G.C.; Apelgren, L.D.; f Cancer Res. 49, 314-317, 1989
A; Title: Molecular cloning and characterization of a human adenocarcinoma/epithelial cell
B; Reference number: A37377; MUD:89089570; PMID:2463074
A; Residues: 1-276, M', 278-314 <STR>
A; Residues: 1-276, M', 278-3167, 1989
A; Reference number: A85898; MUD:89233177; PMID:2469722
A; Reference number: A45898
A; Reference number: A45898
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A;Residues: 1-314 cLIN>
A;Cross-references: UNIPROT:P16422; GB:M93036; NID:g182904; PIDN:AAB00775.1; PID:g182906
A;Note: sequence extracted from NCBI Dackbone (NCBIN:125854, NCBIN:125857, NCBIN:125862,
R;Szala, S.; Froehlich, M.; Scollon, M.; Kasal, Y.; Steplewski, Z.; Koprowski, H.; Linner
Proc. Natl. Acad. Sci. U.S.A. 87, 3542-3546, 1990
A;Title: Molecular cloning of cDNA for the carcinoma-associated antigen GA733-2.
A;Reference number: A35907; MUID:90239051; PMID:2333300
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A; Residues: 1-276, M', 278-314 <PER>
A; Cross-references: GB:MZ6481; NID:g619789; PIDN:AAAS9543.1; PID:g619790
A; Cross-references: GB:MZ6481; N. Bodner, W. F.
Int. J. Cancer 45, 562-565, 1990
Int. J. Cancer 45, 562-565, 1990
A; Title: Further characterization, isolation and identification of the epithelial cell-sn.
A; Reference number: A60298; MUID:90170210; PMID:2307544
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A; Residues: 82-98 <DUX>
A; Residues: 82-98 <DUX>
A; Experimental source: normal colonic mucosa
R; Exportsman, J.R.; Taber, L.D.; Slisz, M.C.; Apelgren, L.D.; Bumol, T.F.
Biotechnol. Appl. Biochem. 10, 536-544, 1988
A; Title: Isolation and characterization of the human adenocarcinoma- associated glycoprot A; Reference number: A61569; MUID:89166093; PMID:3069116
C;Species: Homo sapiens (man)
C;Species: J-Jan-1994 #septence revision 18-Nov-1994 #text_change 09-Jul-2004
C;Date: 2.1-Jan-1994 #sequence revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: B48149; A35907; A35995; A37377; A45898; A60598; A61569
R;Linnenbach, A.J.; Seng, B.A.; Wu, S.; Robbins, S.; Scollon, M.; Pyrc, J.J.; Druck, T.;
A)C. Cell. Biol. 13, 1507-1515; J1993
A;Title: Retroposition in a femily of carcinoma-associated antigen genes.
A;Reference number: A48149; MUID:93180797; PMID:8382772
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A;Residues: 82-97 <SPO>

A;SPO

A;SPO

C;Superfamily: epithelial glycoprotein antigen GA733; EGF homology; thyroglobulin
C;Superfamily: propertied all glycoprotein; intestine; transmembrane protein
F;1-23/Domain: stoppertied #status predicted <SIG>
F;2-481/Domain: propeptide #status predicted <ARO>
F;66-135/Domain: thyroglobulin type I repeat homology <THYI>
F;82-205/Domain: thyroglobulin type I repeat homology <THYI>
F;82-285/Domain: thyroglobulin #status predicted <EXT>
F;26-288/Domain: transmembrane #status predicted <TMM>
F;26-288/Domain: transmembrane #status predicted <TMM>
F;26-288/Domain: transmembrane #status predicted <TMM>
F;26-288/Domain: transmembrane #status predicted <INT>
F;24-111,198/Binding site: carbohydrate (Asn) (covalent) #status predicted
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Score 27; DB 2; Length 314;

96.48;

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C;Species: Homo sapiens (man)
C;Date: 21-Aug-1998 #sequence_revision 21-Aug-1998 #text_change 17-Mar-1999
C;Date: 21-Aug-1998 #sequence_revision 21-Aug-1998 #text_change 17-Mar-1999
C;Accession: JE0225
C;Accession: JE0225
B;Mull: S; Fong, C.G.; Chen, X.N.; Korenberg, J.R.; Delgado-Esueta, A.V.
Biochem. Biophys. Res. Commun. 248, 307-314, 1998
A;Title: JHB, a gene highly homologous to the mouse jerky gene, maps to the region for che A;Reference number: JE0225; MUID:98342085; PMID:9675132
A;Reference number: JE0225
A;Rolecule: Type: mRNA
A;Resperimental source: brain
A;Reperimental source: brain
A;Note: homologous to mouse jerky protein
C;Genetics:
A;Aug position: 8q24.3
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C; Accession: E98148
R; Goodner, B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Qurollo, B.; Goldman, A.; Liu, F.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.; Markelz, B.; A; Liu, E.; Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacterium tume A; Reference number: A97359; MUID:21608551; PMID:11743194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           hypothetical protein AGR_C 4105 [imported] - Agrobacterium tumefaciens (strain C58, Cerec C; Species: Agrobacterium tumefaciens C; Species: 30-Sep-2001 #sequence_revision 30-Sep-2001 #text_change 09-Jul-2004
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R;Godner, B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Qurollo, B.; Goldman, A.; Liu, F.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.; Markelz, B.; Science 294, 2332-2328, 2001
A;Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacterium tume A;Reference number: A97359; MUID:21608551; PMID:11743194
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A;Gene: AGR C_4105
A;Map positIon: circular chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      96.4%;
83.3%;
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Best Local Similarity 83.3
Matches 5; Conservative
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Best Local Similarity 83.3
Matches 5; Conservative
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A, Status: preliminary
A, Molecule type: DNA
A, Residues: 1-605 < KUR>
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A;Residues: 1-694 <KUR>
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A;Map position: linear
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E98148
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                                                                                                                                                                                                                                                                                                                                                    C;Date: 23-Sep-1997 #sequence_revision 23-Sep-1997 #text_change 09-Jul-2004
C;Accession: JC5594
K;Zeng, Z.; Kyaw, H.; Gakenheimer, K.R.; Augustus, M.; Fan, P.; Zhang, X.; Su, K.; Carte
Biochem. Biophys. Res. Commun. 236, 389-395, 1997
A;Title: Cloning, mapping, and tissue distribution of a human homologue of the mouse jer
A;Reference number: JC5594; MUID:97382443; PMID:9240447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A,Molecule type: mRNA
A,Residues: 1-42 <ZRN3
A,Cross-references: UNIPROT:Q9Y4A0; DDBJ:AF004715; NID:g2314828; PIDN:AAB65833.1; PID:g2
A,Note: it is uncertain whether Met-1 or Met-33 is the initiator
C;Comment: This protein functions as a nuclear regulatory protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  flavin-containing monooxygenase [imported] - Agrobacterium tumefaciens (strain C58, Dupo C; Species: Agrobacterium tumefaciens
C; Species: Agrobacterium tumefaciens
C; Species: Agrobacterium tumefaciens
C; Species: Agrobacterium tumefaciens
C; Stacession: AG3139
R; Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, Y.; Woo, I. R; Wood, D.W.; Setubal, J.C.; Kaul, R.; Morker, D.; Kutyavin, T.; Levy, R.; Li, M.; McClell Starp, P.; Romero, P.; Zhang, S.
Science 294, 2317-2323, 2001
A; Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm,
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A;Molecule type: DNA
A;Residues: 1-469 <KUR>
A;Cross-references: UNIPROT:Q8U6R8; GB:AE008689; PIDN:AAL45533.1; PID:g17743245; GSPDB:G
A;Experimental source: strain C58 (Dupont)
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Ayîtile: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens CS8.
A;Reference number: AB2577; MUID:21608550; PMID:11743193
A;Accession: AG3139
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                                                                                                                                                                                                                                                                                           jerky gene protein homolog - human
C;Species: Homo sapiens (man)
C;Date: 23-Sep-1997 #sequence_revision 23-Sep-1997 #text_change 09-Jul-2004
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Pred. No. 1.1e+02;
0; Mismatches 1; Indels
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                                         Indels
                                         1;
              Pred. No. 72;
0; Mismatches
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Best Local Similarity 83.3%;
Matches 5; Conservative
              83.3%;
                                         5; Conservative
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     Best Local Similarity
Matches 5; Consert
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Matches 5; Conserv
                                                                                               1 DEXGLF 6
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A;Map position: 11q21
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JH8 protein - human
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C;Genetics:
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A, Accession: A03052
A, Molecule type: protein
A, Residues: 1-108 < CAP>
A, Molecule type: protein
A, Cross-references: UNIPROT: p02617; UNIPROT: Q8JIU1
A, Note: the isoelectric point of this protein is 4.5
C, Superfeaully: parvalbumin; calmodulin repeat homology
C, Reywords: blocked amino end; calcium binding; duplication; EF hand; muscle
F, 38-70/Domain: calmodulin repeat homology < EFI>
F, 77-108/Domain: calmodulin repeat homology < EFI>
F, 77-108/Domain: calmodulin repeat homology < EFI>
F, 77-108/Domain: calmodulin repeat homology < EFI>
F, 75-108/Domain: calmodulin repeat homology < EFI
F, 75-108/Do
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hypothetical protein yozM - Bacillus subtilis

Cispecies: Bacillus

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A;Experimental source: strain 168
C;Genetics:
                                                                                                                                                                                            parvalbumin beta - edible frog
C'Species: Rana esculenta (edible frog)
C'Date: 30-Nov-1980 #sequence_revision 30-Nov-1980 #text_change 09-Jul-2004
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Matches 5
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Conserved hypothetical protein Atu2257 [imported] - Agrobacterium tumefaciens (strain CS Conserved hypothetical protein Atu2257 [imported] - Agrobacterium tumefaciens
C; Species: Agrobacterium tumefaciens
C; Date: 11-3an-2002 #sequence_revision 11-3an-2002 #text_change 09-Ju1-2004
C; Accession: AH2853
R; Mood, D.W.; Setubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.B.; Chen, Y.; Woo, I erage, G.; Gillet, W.; Grant, C.; Guenthner, D.; Kutyavin, T.; Levy, R.; Li, M.; McClell Karp, P.; Romero, P.; Zhang, S.
Science 294, 2317-2323, 2001
A.Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm,
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(189786
hypothetical protein SA0224 [imported] - Staphylococcus aureus (strain N315)
c;Species: Staphylococcus aureus
c;Species: Staphylococcus aureus
c;Species: 10-May-2001 #sequence_revision 10-May-2001 #text_change 09-Jul-2004
c;Accession: C89786
R;Kuroda, M.; Ohte, T.; Uchiyama, I.; Baba, T.; Yuzawa, H.; Kobayashi, I.; Cui, L.; Oguc ma, A.; Mizutani-Ui, Y.; Kobayashi, N.; Sawano, T.; Inoue, R.; Kaito, C.; Sekimizu, K.; Lancet 357, 1225-1240, 2001
A;Title: Whole genome sequencing of meticillin-resistant Stapylococcus aureus.
A;Title: Whole genome sequencing of meticillin-resistant Stapylococcus aureus.
A;Reference number: A89758; MUID:21311952; PMID:11418146
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A;Molecule type: DNA
A;Rediues: 1-694 <KUR>
A;Cross-references: UNIPROT:Q8UD70; GB:AE008688; PIDN:AAL43246.1; PID:g17740731; GSPDB:G
A;Experimental source: strain C58 (Dupont)
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A;Experimental source: strain N315
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Afitle: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58.
A;Reference number: AB2577; MUID:21608550; PMID:11743193
A;Accession: AH2853
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    Score 27; DB 2; Length 694; Pred. No. 1.6e+02; 0; Mismatches 1; Indels
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    96.4%;
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Best Local Similarity 83.3%;
Matches 5; Conservative
Query Match
Best Local Similarity 83.3
Matches 5; Conservative
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1es 5; Conservative
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A, Gene: Atu2257
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A;Gene: SA0224
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Matches
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RESULT 15

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G71880
hypothetical protein jhp0852 - Helicobacter pylori (strain J99)
C;Speciaes Helicobacter pylori
A;Variety: strain J99
C;Date: 12-Feb-1999 #sequence\_revision 12-Feb-1999 #text\_change 09-Jul-2004
C;Accession: G71880
C;Accession: G71880
C;Accession: R.; Merberg, D.; King, B.L.; Brown, E.D.; Doig, P.C.; Smith, D.R.; Inde, C.; Gibson, R.; Merberg, D.; Mills, S.D.; Jiang, Q.; Taylor, D.B.; Vovis, G.F.; Nature 397, 176-180, 1999
A;Title: Genomic sequence comparison of two unrelated isolates of the human gastric path A;Reference number: A71800; MUD:99120557; PMID:9923682
A;Accession: G71880
A;Accession: G71880
A;Accession: G71880
A;Accession: G71880
A;Accession: G71880
A;Cross-references: UNA
A;Residues: 1-143 <ARN>
A;Residues: 1-143 <ARN>
A;Cross-references: UNIPROT:Q9ZKT3; GB:AE001514; GB:AE001439; NID:G4155418; PIDN:AAD0643
A;Experimental source: strain J99
C;Genetics:
A;Genetics: ó Gaps ö Query Match 92.9%; Score 26; DB 2; Length 143; Best Local Similarity 83.3%; Pred. No. 57; Matches 5; Conservative 0; Mismatches 1; Indels

Search completed: January 3, 2005, 13:53:03 Job time : 39 secs

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Sequence 13 AA;
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                                                                                         January 3, 2005, 13:39:06; Search time 156 Seconds (without alignments) 13.797 Million cell updates/sec
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version 5.1.6
- 2005 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
                                                               OM protein - protein search, using sw model
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AAW808866
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AAO19722
ABP1219
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AD04121185
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Gapop 10.0 , Gapext 0.5
   GenCore (c) 1993
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geneseqp2003as: *
geneseqp2003bs: *
geneseqp2004s: *
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Abm54019 Propionib Abp55381 Human col	Adb70320 Tumour-as	Adb75579 Prostate	Add45201 Human Pro	Adj68232 Human hea	Adi23187 Human ful	Adj37099 Human ma	Adk70436 Respirato		Adk71158 Human Ep-	S	Adn03783 Antipsori	Adp81221 Protein	Adp81218 Protein	Adf07872 Bacteria	Aab57018 Human pro	Aag74109 Human co		Abg21997 Novel hum	
ABP55381	ADB70320	ADB75579	ADD45201	ADJ68232	ADL23187	ADJ37099	ADK70436	ADK71156	ADK71158	ADL06535	ADN03783	ADP81221	ADP81218	ADF07872	AAB57018	AAG74109	ABB78746	ABG21997	
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	28	59	_	_	C)	m	4	2	9	7	38	39	0	4.1	42	9	4	ΓO.	

## ALIGNMENTS

Synthetic peptide; human; receptor; antigen; tumour; auto-immune disease; PCR; primer; graft rejection; allergy; inflammatory disease; endocrine disease; degenerative disease. Amino acid sequence of the synthetic peptide 42. AAW80859 standard; peptide; 13 AA 98WO-EP002180 97EP-00106109 (first entry) WPI; 1998-594564/50 Kufer P, Raum T; ۳. (KUFE/) KUFER P. (RAUM/) RAUM T.

Production of anti-human antigen receptors - by selecting a combination of functionally rearranged VH and VL immunoglobulin chains expressed from a recombinant vector.

Example 5; Page 40; 84pp; English.

This is the amino acid sequence of a synthetic peptide used in the method of the invention, involving the identification of receptors that can be used for targeting antigens in humans without being immunogenic themselves. Such receptors can be used for treating diseases such as tumours or auto-immune diseases, graft rejection after transplantation, infectious diseases by targeting cellular receptors as well as allergic, inflammatory, endocrine and degenerative diseases by targeting key molecules involved in the pathological process

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Synthetic peptide; human; receptor; antigen; tumour; auto-immune disease; PCR; primer; graft rejection; allergy; inflammatory disease; endocrine disease;
                                                                                                                                                                                                                                                                                                                                                    oduction of anti-human antigen receptors - by selecting a combination functionally rearranged VH and VL immunoglobulin chains expressed from
                                                                                                                                                                                                                                                                                                                                                                                                                                 This is the amino acid sequence of a synthetic peptide used in the methon of the invention, involving the identification of receptors that can be used for targeting antigens in humans without being immunogenic themselves. Such receptors can be used for treating diseases such as tumours or auto-immune diseases, graft rejection after transplantation, infectious diseases by targeting cellular receptors as well as allergic, inflammatory, endocrine and degenerative diseases by targeting key molecules involved in the pathological process
                  Amino acid sequence of the synthetic peptide 39
                                                                                                                                                                                                                                                                                                                                                                                                         Example 5; Page 40; 84pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                a recombinant vector
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                                                                                                                                                                                                                                               (KUFE/) KUFER P
(RAUM/) RAUM T.
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                                                                                                        Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This is the amino acid sequence of a synthetic peptide used in the method of the invention, involving the identification of receptors that can be used for targeting antigens in humans without being immunogenic themselves. Such receptors can be used for treating diseases such as tumours or auto-immune diseases, graft rejection after transplantation, infectious diseases by targeting cellular receptors as well as allergic, molecules involved in the pathological process
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Production of anti-human antigen receptors - by selecting a combination of functionally rearranged VH and VL immunoglobulin chains expressed from a recombinant vector.
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96.4%; Score 27; DB 2; Length 13; 83.3%; Pred. No. 9.4; 1; Indels ive 0; Mismatches 1; Indels
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Pred. No. 9.4;
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                                                      DEXGLF
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Query Match
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                      Gape
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Score 27; DB 2; Length 13;
Pred. No. 9.4;
0; Mismatches 1; Indels
                                                                                                                                                                             Amino acid sequence of the synthetic peptide 40.
                                                                                                                AAW80857 standard; peptide; 13 AA.
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 96.4%;
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AAW80856 standard; peptide; 13 AA.

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16-FEB-1999 (first entry)

AAW80856;

RESULT 3
AAW80856
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The present invention describes substantially purified human proteins (referred to as open reading frame, ORFX, where X is 1-11491 (see Table 1 in the specification). ABN15762 to ABN27252 encode the human ORFX to the plant of 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Modulating an undesirable immune response, e.g. transplant rejection, in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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tumour-associated antigen; gene therapy; autoimmune disorder;
immunosuppressive; antidiabetic; neuroprotective; antirheumatic;
antiarthritic; dermatological; antiinflammatory; antianaemic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 27; DB 5; Length 66; Pred. No. 54;
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hyperproliferative disorders and autoimmune disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human GA733-2 protein thyroglobulin domain.
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                                        Disclosure; SEQ ID NO 10; 1037pp; English.
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Best Local Similarity 83.3
Matches 5; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 66 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                 This is the amino acid sequence of a synthetic peptide used in the method of the invention, involving the identification of receptors that can be used for targeting antigens in humans without being immunogenic themselves. Such receptors can be used for treating diseases such as tumours or auto-immune diseases, graft rejection after transplantation, infectious diseases by targeting cellular receptors as well as allergic, inflammatory, endocrine and degenerative diseases by targeting key molecules involved in the pathological process
                                                                                                                                                                       Production of anti-human antigen receptors - by selecting a combination of functionally rearranged VH and VL immunoglobulin chains expressed from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; open reading frame; ORFX; gene therapy; cancer; cirrhosis; hyperproliferative disorder; psoriasis; benign tumour; haemorrhage; degenerative disorder; osteoarthritis; neurodegenerative disorder; cardiovascular disease; diabetes mellitus; systemic lupus erythematosus; hypertension; hypothyroidism; cholesterol ester storage disease; immune deficiency; immune disorder; infectious disease; autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel human polypeptides and polynucleotides useful for diagnosing, preventing and treating cardiovascular disease, neurodegenerative,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 27; DB 2; Length 13;
Pred. No. 9.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human ORFX protein sequence SEQ ID NO:10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABP00014 standard; protein; 66 AA.
                                                                                                                                                                                                                                                             Example 5; Page 40; 84pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-MAY-2001; 2001WO-US010836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-MAY-2000; 2000US-0206132P.
29-AUG-2000; 2000US-0228716P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               96.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 83.3%,
Best Local Similarity 63.3%,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Shimkets RA, Leach MD;
                                                                                                                                                                                                                      a recombinant vector.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (CURA-) CURAGEN CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2002-106308/14.
                                                                                                                              WPI; 1998-594564/50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DESGLF 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DEXGLF 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       myasthenia gravis
                                                                                   Kufer P, Raum T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N-PSDB; ABN15766
                      KUFER P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 13 AA;
                                          RAUM T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200192523-A2
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                      (KUPE/) 1
(RAUM/) 1
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The present invention relates to a method of modulating an undesirable immune response in a recipient host mammal to enhance tolerance in the recipient, which comprises administering at least one composition comprising a tumour-associated antigen molecule in a carrier to the recipient host mammal, in an amount to modulate the undesirable immune response. The method is useful in suppressing undesirable immune responses in humans which may lead to a disorder such as diabetes, transplant rejection, multiple sclerosis, rheumatoid arthritis, systemic lupus erythematosus, or pernicious anaemia. The nucleic acids and composition in the invention may be used in screening assays to assess agents that modulate tumour-associated antigen mediated regulation of antigen recognition and immune suppression, as research tools to identify other proteins that are involved in antigen presentation by Major Histocompatibility Complex (MHC) Class II molecules, and in various diagnostic and therapeutic applications (e.g. in treating the abovementioned diseases). The present sequence is the thyroglobulin domain of committed the thyroglobulin and the thyroglobulin domain of committed the thyroglobulin and the committed the thyroglobulin and the committed the thyroglobulin and the committed the c
    patients, comprises administering a composition comprising a tumor-associated antigen molecule in a carrier to the patient.
comprises administering
                                                                                                                                                 87pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           exemplification of the invention
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Gaps ö 6; Length 76; 1; Indels Score 27; DB 6 Pred. No. 62; 0; Mismatches 96.4%; 83.3%; 5; Conservative Query Match Best Local Similarity Matches

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DEXGLF 6

DESGLF 43 38

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AAY95248;

AAY95248 standard; peptide; 106 AA.

Colorectal cancer antigen GA733-2.

(first entry)

29-AUG-2000

Colorectal cancer, antigen, GA733-2; virus infected plant; vaccine, pNF1/TVE; alfalfa mosaic virus; transcomplementation.

Homo sapiens

WO200025574-A1.

11-MAY-2000.

99WO-US025566 29-OCT-1999; 98US-0106221P 30-OCT-1998; (UYJE-) UNIV JEFFERSON THOMAS.

Yusibov V; Koprowski H,

WPI; 2000-365296/31.

Producing full-length antibody in a host plant for use as vaccines, involves using recombinant viral vectors or transcomplementation systems. Example 1, Fig 1B; 87pp; English

This peptide is colorectal cancer antigen GA733-2, which is recognised by colorectal cancer associated antigen 17-1A. GA733-2 was fused with the coat protein of alfalfa mosaic virus (AlMV), and the fusion product was cloned into full-length RNA3 of AlMV to create pNF1/TVE. This construct 

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sequences. (I) is useful as hybridisation probes, polymetrase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II) The polymetocides are also used in diagnostics as expressed sequence tags for identifying expressed content of the content of th
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can be used to express GA733-2 in infected plants. In construct pNF2/TVE, non-full-length AlMV coat protein is used. The invention discloses novel methods for producing foreign polypeptides in a host plant using recombinant viral vectors, such as AlMV, and transcomplementation systems. The products expressed in the plant can be used as vaccine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  polynucleotide (I) and polypeptide (II)
                                                                                                                                                                                                                                                                                                        Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder.
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                                                                                                                                                                                                                                             Score 27; DB 3; Length 106;
Pred. No. 89;
0; Mismatches 1; Indels
                                                                                                                                         components or in other blomedical applications
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel human diagnostic protein #13542.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABG13551 standard; protein; 107 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to isolated
                                                                                                                                                                                                                                           Similarity 83.3%; 5; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-MAR-2001; 2001WO-US008631.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31-MAR-2000; 2000US-00540217.
23-AUG-2000; 2000US-00649167.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-639362/73
                                                                                                                                                                                                                                                                    Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                             8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N-PSDB; AAS77738.
                                                                                                                                                                                              Sequence 106 AA;
                                                                                                                                                                                                                                                                                                                                                                                                       85 DESGLF
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                                                                                                                                                                                                                                                Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Isolated nucleic acids and polypeptides, useful for preventing diagnosing and treating e.g. leukemia, inflammation and immune disorders.
                                                                                                                                                                                                                                                                                                                  Human; cytokine; cell proliferation; cell differentiation; gene therapy; vaccine; peptide therapy; stem cell growth factor; haematopolesis; tissue growth factor; immunomodulatory; cancer; leukaemia; nervous system disorders; arthritis; inflammation.
amino acid sequences of the invention. Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                           Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 20; SEQ ID NO 15596; 1399pp + Sequence Listing; English
                                                                                  Score 27; DB 4; Length 107;
Pred. No. 90;
0; Mismatches 1; Indels
                                                                                                                                                                                                                   AA001704 standard; protein; 126 AA
                                                                                                                                                                                                                                                                                             Human polypeptide SEQ ID NO 15596.
                                                                                 96.4%;
nilarity 83.3%;
Conservative (
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18-MAY-2000; 2000US-00577409.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rang YT, Liu C, Drmanac RT;
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                                                                                                                                                                                                                                                                     (first entry)
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                                                                                                                                                          DESGLF 105
                                                                                           Local Similarity
tes 5; Conserv
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                                                            Sequence 107 AA;
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                                                                                                         Matches
                                                                                                                                                                                                         RESULT 9
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cancer-associated nucleic acid molecules (P) and proteins the cancer-associated nucleic acid molecules (P) and proteins are collectively known as colon cancer antigens. The colon cancer antigens have cytostatic activity and can be used in gene therapy and vaccine production. N and P may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate P expression. For example, N and P may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of P by expressing inactive proteins or to supplement the patients own production of P. Additionally, N may be used to produce the colon cancer-associated Ps, by inserting the nucleic acids into a host cell and culturing the cell to express the proteins. N and P can be used in the prevention, diagnosis and treatment of colorectal sequences used in the exemplification of the present invention. N.B. Pages 666 to 682 and page 7053 of the sequence listing were missing at time of publication, meaning no sequences are present for SEQ ID NO:1027
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Nucleic acids encoding 4277 human colon cancer-associated polypeptides, useful for preventing, diagnosing and/or treating colorectal cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; colon cancer; colon cancer antigen; diagnosis; detection;
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                                                                                                                                                                                                                                                                                                                                                                 Human colon cancer antigen protein SEQ ID NO:6726.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 11; Page 8187-8188; 9803pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      colorectal carcinoma; chromosome 4.
                                                                                                                                                                    AAG75962 standard; protein; 193 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28-SEP-2000; 2000WO-US026524.
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                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Barash SC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2001-235357/24.
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Matches 5; Conserv
DESGLF 40
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 193 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DESGLE
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                                                                                                                                                                                                                                                                                                  03-SEP-2001
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                                                                                                                                                                                                                                   AAG75962;
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                                                                                                 RESULT 10
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RESULT 11

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Gaps

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1; Indels

0; Mismatches

5; Conservative

Local Similarity

Best Loc Matches

Query Match

96.4%; Score 27; DB 4; Length 126; 83.3%; Pred. No. 1.1e+02;

100 DESGLF 105

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The invention relates to novel isolated nucleic acid molecules and polypeptides present in normal and neoplastic ovarian cells. These comprises a nucleic acid sequence encoding any of the 167 amino acid sequences (e.g. 478, 237 or 233 amino acids) fully defined in the sequences (e.g. 478, 217 or 233 amino acids) fully defined in the sequences (e.g. 478, 1494 or 1691 bp) fully defined in the specification (SEQ. ID NOS: ADP81055 to ADP81054). The invention comprises: a method for determining the presence of a ovarian specific nucleic acid molecule; a host cell comprising the vector comprising the above nucleic acid molecule; a host cell comprising the vector; a method for producing a polypeptide encoded by the nucleic acid molecule; a polypeptide encoded by the nucleic acid molecule; a polypeptide encoded by the nucleic acid molecule; a polypeptide encoded by the nucleic acid molecule of or its fragment that specifically binds to the above polypeptide; a method for determining the presence of an ovarian specific protein in a sample; a method for diagnosing or monitoring the presence and metastases of ovarian cancer in a patient; a kit for detecting a risk of cancer or compressing the presence of the above nucleic acid molecule or comprising the presence of the above nucleic acid molecules or ovarian cancer; and a comprising the above polypeptide or nucleic acid molecules and polypeptide. The isolated nucleic acid molecules may be used to create a concerting the inventor or more acid encoding the for accinity or manitoring the presence acid molecules may be used to create a concert and molecules and polypeptides can be used for acciding the formand and polypeptides and polypeptides can be used to reate a concert and molecules and molecules and polypeptides and polypeptides and polypeptides and polypeptides and molecules and metastases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for diagnosing or monitoring the presence and metastases of ovarian cancer and treating ovarian cancer. This sequence represents the protein of an ovarian specific gene of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New ovarian specific nucleic acid molecules and polypeptides useful for diagnosing, preventing or treating ovarian cancer, for producing transgenic animals or cells, or for research purposes.
                                                                                                                                                                                                      normal; neoplastic; ovarian; ovarian specific nucleic acid; OSNA; metastatic; cancer; vaccine; cytostatic; human.
                                                                                                                                                          Protein of human ovarian specific gene, SEQ ID No 253.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chen H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 12; SEQ ID NO 253; 754pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Liu S,
                   ADP81219 standard; protein; 240 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sun X,
                                                                                                                                                                                                                                                                                                                                                                                                                                                              06-DEC-2002; 2002US-0431301P.
06-DEC-2002; 2002US-0431321P.
30-JUN-2003; 2003US-0484584P.
07-NOV-2003; 2003US-0518607P.
                                                                                                                                                                                                                                                                                                                                                                                                                  08-DEC-2003; 2003WO-US038855
                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Macina RA, Turner LR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (DIAD-) DIADEXUS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2004-468850/44.
                                                                                                                                                                                                                                                                                                                            WO2004053079-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N-PSDB; ADP81060
                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                09-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                        24-JUN-2004.
                                                                  ADP81219;
ADP81219
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96.4%; Scor. 83.3%; Pred Query Match
Best Local Similarity 83.3.

Sequence 240 AA;

1 DEXGLF 6

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glyphosphate tolerance; hormone sensitivity; disease resistance; sugar sensing; flowering; attention; root growth; root hair; seed development; cell proliferation; cell differentiation; premature sensescence; necrosis; plant size; leaf morphology; seed morphology; seed blochemistry; root anthocyanin; plant anthocyanin; light response; shade avoidance; bioinformatic; Broun PE; Haake V; Keddie J, transgenic; plant; enhanced tolerance to abiotic stress; Riechmann JL, Jiang C, Heard JE, Ratcliffe O, Adam LJ, Reuber TL, Yu G; ADI43131 standard; protein; 244 AA. Pineda O, Plant transcription factor #541. transcription factor; gene; ds. 25-FEB-2003; 2003US-00374780. 18-APR-2001; 2001US-00837944. 22-APR-2004 (first entry) Ratcliffe O, Dubell AN, F SHERMAN B K. RIECHMANN J I JIANG C. HEARD J E. CREELMAN R A ADAM L J.
REUBER T L.
KEDDIE J.
BROUN P E.
PILGRIM M L. RATCLIFFE O. WPI; 2004-132245/13. DUBELL A N. PINEDA O. US2004019927-A1. HAAKE V. Oryza sativa. Sherman BK, F Creelman RA, Pilgrim ML, D 29-JAN-2004. ADI43131; (RIEC/)
(JIAN/)
(HEAR/)
(HEAR/)
(CREE/)
(RATC/)
(ADAM/)
(REDD/)
(REDD/)
(RUDUS/)
(PILG/)
(YUGG/) SHER/) ADI4313 

The invention describes a transgenic plant comprising a recombinant polynucleotide of any one of more than 500 nucleotide sequences fully defined in the specification or its complement. The method of the invention can be used to produced a plant having altered traits such as: enhanced tolerance to abiotic stress; glyphosphate tolerance; hormone sensitivity; disease resistance; sugar sensing; early or late flowering; altered flower structure, change in stem bifurcations, altered branching pattern, reduced apical dominance, reduced trichome density; lack of trichomes; reduced ectopic trichome development; altered stem morphology; increase in trichome number; altered stem morphology; increased root growth, increased root hairs, altered seed development; altered cell proliferation or cell differentiation; rapid development; New transgenic plant comprising a recombinant polynucleotide of any or of more than 500 nucleotide sequences, useful in bioinformatic search Claim 1; SEQ ID NO 1594; 435pp; English.

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Gaps

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Length 240;

Score 27; DB 8; Length 240 Pred. No. 2.1e+02; 0; Mismatches 1; Indels

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               size, decreased plant size, leaf morphology; seed morphology; seed biochemistry; increase in root anthocyanins; increase in plant anthocyanins, or alteration in light response or shade avoidance. The transgenic plant, polynucleotides and polypeptides are useful in bioinformatic search methods. This is the amino acid sequence of a plant transcription factor, and an orthologue of Arabiodopsis thaliana
                                                                                                           transcription factors isolated in the invention, that can be used in the creation of a transgenic plant with altered traits.
 premature senescence; increased necrosis; increase in seedling or plant
                                                                                                                                                                                                                          Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rice; transcription factor; plant; transgenic; abiotic stress;
                                                                                                                                                                                        Score 27; DB 8; Length 244; Pred. No. 2.2e+02; 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Thalecress transcription factor, Rice orthologue #126.
                                                                                                                                                                                                                                                                                                                                                                       ADO03227 standard; protein; 244 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22-MAR-2000; 2000US-00533392.
22-MAR-2000; 2000US-00533648.
06-APR-2000; 2000WO-0US009448.
16-NOV-2000; 2000US-00713994.
27-MAR-2001; 2001US-00819142.
17-APR-2001; 2001US-00837444.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22-MAR-2000; 2000US-00532591.
22-MAR-2000; 2000US-00533029.
22-MAR-2000; 2000US-00533030.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           09-AUG-2002; 2002US-00225066.
                                                                                                                                                                                          96.4%;
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2000US-00506720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14-JUN-2002; 2002US-00171468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09-AUG-2002; 2002US-00225067
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           09-AUG-2002; 2002US-00225068
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17-DEC-2002; 2002US-0434166P.
                                                                                                                                                                                                                                                                                                                                                                                                                                     01-JUL-2004 (first entry)
                                                                                                                                                                                                                          5; Conservative
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FROMM M E.
HEARD J E.
RIECHMANN J L.
                                                                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                      26 DEAGLF 31
                                                                                                                                                                                                                                                          1 DEXGLF 6
                                                                                                                                                             Sequence 244 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Oryza sativa.
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(HEAR/)
(RIEC/)
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transcription featers to a transgant plant compiletes at the initiates requence congrising a polymeride and particle, that initiates requence concoring a polymeride, that initiates requence concoring a polymeride, that initiates complementary sequence comprising a polymeride, that initiates cranscription (i.e. a transcription factor) from Arabidopsis, Soybean, Rice, Rape or Corn, comprising any of the sequences appearing as AD01588 concentration and progeny plant, an expression cassette (comprising a transgenic plant to grow a progeny plant, an expression cassette, identifying a factor that is modulated by or interacts with a polymeptide encoded by continuous and identifying at least one downstream polymuclectide sequence and identifying at least one downstream polymuclectide sequence and identifying at least one downstream polymuclectide sequence by the polymuclectide sequence by the polymuclectide sequence and identifying at least one downstream polymuclectide sequence and identifying at least one downstream polymuclectide sequence by the polymuclectide sequence by the polymuclectide described above. The polymuclectide sequence by the polymuclectide described above. The polymuclectide sequence to about stress increase. In the polymuclectide sequence to about stress in that has an altered transpent plant is useful for producing a plant that has an altered continuous of the polymuclectide sequence to about stress; tolerance to farsace to continuous continuous decreased sensitivity to beautions freess; tolerance to contance to otherance to otherance to phosphate limitation, decreased sensitivity to beautions in the polymuclectide sensitivity to beaution, altered susceptibility to sequence and plantscaped on the polymuclectural change, a change in section of flowering, an inforescence architectural change, a change in stand deminator, reduced meritation, altered susceptibility to sequence morphology, altered beautions and secdling vigor, early flowering, larged beauties, altered susceptibility in the flowering an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               biochemistry, an increase in seed oil content, decrease in seed oil content, increase in seed fatty acid content, decrease in seed fatty acid content, increase in seed protein content, decrease in seed protein content, alteration in seed prenyl lipid content, increase in seed
                                                                                                                                                                                                                                                                                                                                                                                                       New transgenic plant, useful in developing phenotypes with altered or improved characteristics or traits.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a transgenic plant comprises a recombinant
                                                                                                                                                                                                                                                                            Broun PE;
                                                                                                                                                                                                                                                                          mm ME, Heard JE, Riechmann JL, Adam LJ, Broun PE
uber TL, Keddie JS, Yu G, Jiang C, Samaha RS;
Creelman RA, Dubell AN, Ratcliffe O, Kumimoto R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; SEQ ID NO 1641; 213pp; English
                                                                                                     JIANG C.
SAMAHA R S.
PILGRIM M L.
                                                                                                                                                                 CREELMAN R A. DUBELL A N.
                                                    REUBER T L.
KEDDIE J S.
                                                                                                                                                                                                                                                                                                                                                                      WPI; 2004-225755/21.
                                                                                                                                                                                                    RATCLIFFE O. KUMIMOTO R.
                                                                                                                                                                                                                                         SHERMAN B K
                                                                                                                                                                                                                                                                              Fromm ME,
ADAM L J.
BROUN P E.
PINEDA O.
REUBER T L.
                                                                                                                                                                                                                                                                                              Reuber
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Sherman BK;
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                                                                                                         (JIAN/)
(SAMA/)
(PILG/)
(CREE/)
(DUBE/)
(RATC/)
(KUMI/)
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                                                                      KEDD/)
                 (BROU/)
                                                      REUB/
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ADL23185 standard; protein; 265 AA.

ADL23185

20-MAY-2004 (first entry)

ADL23185;

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 sterols, upregulation of genes involved in secondary metabolism, increase
              in root anthocyanins, increase in plant anthocyanins, and alteration in light response or shade avoidance. The present sequence represents an orthologue of a thalecress transcription factor isolated from Rice.
                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                            GA733-2F; secretory protein; mutant; cancer; immunotherapy; tumour.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Soluble variants of type I membrane protein, GA733-2E and GA733-2F useful for cancer immuno:therapy and detection of tumour cells.
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                                                                                                                                                                                                                                                                                                                                                                                                                Truncated GA733-2E soluble variant of type I membrane protein.
                                                                                                           96.4%; Score 27; DB 8; Length 244; 83.3%; Pred. No. 2.2e+02; ive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Koprowski H, Herlyn D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (WIST-) WISTAR INST ANATOMY & BIOLOGY.
                                                                                                                                                                                                                                                                                    AAR36397 standard; protein; 265 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 1, Fig 1, 66pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           92WO-US008572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         91US-00778232
                                                                                         Lecry Match
Bust Local Similarity 83.3*;
Best Local Similarity 83.3*;
                                                                                                                                                                                                                                                                                                                                                   (revised)
(revised)
(first entry)
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                                                                             Sequence 244 AA;
                                                                                                                                                                                                        DEAGLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 265 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO9308298-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-OCT-1991;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
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09-JAN-2003
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The invention relates to producing a recombinant polypeptide comprising culturing cells, which have been transformed or transfected with a culturing cells, which have been transformed or transfected with a culturing cells, which have been transformed or transcription unit crocdes a polypeptide under selective conditions. Also included are a vector or segment comprising multiple copies of a transcription unit crocdes a polypeptide, a host cell comprising an expression vector or segment and a stable cell line comprising an expression vector or segment and a stable cell line comprising an expression vector or segment. Each transcription unit is under the control of its own promoter and 3' untranslated region, where the promoter is an SV40, HSV, bovine and 3' untranslated region, where the promoter is an SV40, HSV, bovine and 3' untranslated region, where the promoter is an SV40, HSV, MSV CC TS esgment and a stable cell line comprises multiple comprises multiple captors the superson vector further comprises multiple and heavy chain polypeptides. The transcription unit also encodes two different submits of a multimeric protein, an immunoglobulin light and heavy chain polypeptides. It further encodes a BPI protein control of an hCMV promoter and mouse light chain sunder the control of an hCMV promoter and mouse light chain sunder the control of an hCMV promoter and mouse light chain sunder the control of an hCMV promoter and mouse light chain sunder the vector further comprises 0, 1 or 2 copies of a human heavy control of an hCMV promoter and mouse light chain sunder the order and either a gpt or neo gene. Other genes suitable for expression using the method of the invention are Ep-CAM and CAM control of the invention are Ep-CAM and CAM control of the invention are Ep-CAM and CAM control of the method is useful for producing recombinant polypeptides are also found in a research laboratories and combinant polypeptides are also found in a research laboratories and combinant polypeptides are also found in a research lab
                                                                                                                                                      Human, bactericidal/permeability-increasing protein; BPI; Ep-CAM; CAB2.1;
recombinant polypeptide production; ING-1; antibody; anti-CD18 antibody;
cosmetic product.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Producing recombinant polypeptide, useful for treating or diagnosing comprises culturing cells transformed or transfected with a vector comprising multiple copies of a transcription unit separated by a selective marker gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 12; SEQ ID NO 58; 133pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                       31-MAR-2003; 2003US-00404724.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-MAR-2002; 2002US-0368530P.
                                                                                                            Human soluble Ep-CAM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2003-875646/81.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (HORW/) HORWITZ A H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-PSDB; ADL23184.
                                                                                                                                                                                                                                                                                                             US2003203447-A1.
                                                                                                                                                                                                                                                 sapiens
                                                                                                                                                                                                                                                                                                                                                           30-OCT-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Horwitz AH;
                                                                                                                                                                                                                                                                        Synthetic.
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Gaps

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Score 27; DB 2; Length 265; Pred. No. 2.4e+02; 0; Mismatches 1; Indels

96.4%;

Local Similarity 83.3

Query Match

100 DESGLF 105

1 DEXGLF 6

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CC preparation of other molecules. Advantages of the present invention of other molecules. Advantages of the present invention of includes increased recombinant polypeptide production, increased control and/or regulation over the production efficiency, greater control and/or regulation over the cualities of the polypeptide expressed, increased stability of cell or lines, and/or decreased costs for materials, reagents and/or other control and/or regulation over the corporation using the method of the invention.

XX

Sq Sequence 265 AA;

Query Match

Best Local Similarity 83.3%; Pred. No. 2.46+02;

Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Search completed: January 3, 2005, 13:49:03 Job time : 158 secs

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